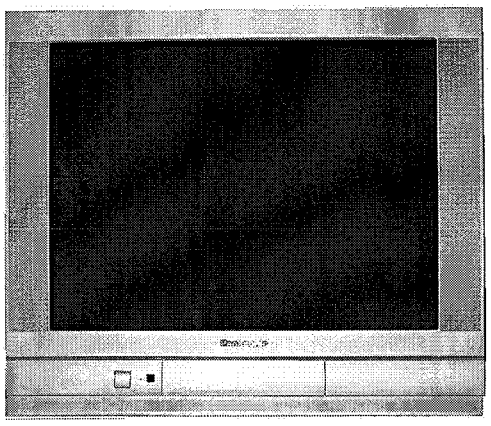
Service Manual



Colour Television

TX-25AS10D/M
TX-25AS10F/M

EURO-4H Chassis

SPECIFICATIONS

Power Source:	220-240V a.c., 50Hz
Power Consumption:	122W
Stand-by Power Consumption:	1,4W
Aerial Impedance:	75Ω unbalanced, Coaxial Type
Receiving System:	PAL-I, B/G, H, D/K, PAL-525/60 SECAM L/L', B/G, D/K M.NTSC NTSC (AV only)

Receiving Channels:

VHF E2-E12	VHF H1-H2 (ITALY)
VHF A-H (ITALY)	VHF R1-R2
VHF R3-R5	VHF R6-R12
UHF E21-E69	CATV (S01-S05)
CATV S1-S10 (M1-M10)	CATV S11-S20 (U1-U10)
CATV S21-S41 (HYPERBAND)	

Intermediate Frequency:

Video/Audio	
Video	38,9MHz, 34MHz
Audio	32,9MHz, 33,16MHz, 33,4MHz 40,4MHz, 32,4MHz (A2 Stereo) 33,05MHz, 34,05MHz (NICAM) 32,66MHz, 32,4MHz (Czech Stereo)
Colour	34,47MHz (PAL) 34,5MHz, 34,65MHz (SECAM)

Video/Audio Terminals:

AUDIO MONITOR OUT	Audio (RCAx2)	500mV rms 1kΩ
AV1 IN	Video (21 pin)	1V p-p 75Ω
	Audio (21 pin)	500mV rms 10kΩ
	RGB (21 pin)	
AV1 OUT	Video (21 pin)	1V p-p 75Ω
	Audio (21 pin)	500mV rms 1kΩ
AV2 IN	Video (21 pin)	1V p-p 75Ω
	Audio (21 pin)	500mV rms 10kΩ
	S-Video IN (21-pin)	Y: 1V p-p 75Ω C:0,3V p-p 75Ω
AV2 OUT	Video (21 pin)	1V p-p 75Ω
	Audio (21 pin)	500mV rms 1kΩ
	Selectable output (21 pin)	
AV3 IN	S-Video IN (4-pin)	Y: 1V p-p 75Ω C: 0,3V p-p 75Ω
	Audio (RCAx2)	500mV rms 10kΩ
	Video (RCAx1)	1V p-p 75Ω

High Voltage:	30,5kV ± 1kV
Picture Tube:	A60LUQ085X05 59cm
Audio Output:	2 x 15W (Music Power) 8Ω Impedance
Headphones:	8Ω Impedance 3,5mm
Accessories supplied :	Remote Control 2 x R6 (UM3) Batteries
Dimensions:	
Height:	528mm
Width:	626mm
Depth:	470mm
Net weight:	34,5kg

Specifications are subject to change without notice.
Weights and dimensions shown are approximate.

NOTE: This Service Manual should be used in conjunction with the EURO-4H Technical guide.

Panasonic

CONTENTS

SAFETY PRECAUTIONS 2
SERVICE HINTS 3
SERVICE POSITION 4
ADJUSTMENT PROCEDURE AND FACTORY SETTINGS 5
WAVEFORM PATTERN TABLE 6
ALIGNMENT SETTINGS 7
BLOCK DIAGRAMS 8
PARTS LOCATION 12
REPLACEMENT PARTS LIST 13
SCHEMATIC DIAGRAMS 23
CONDUCTOR VIEWS 27

SAFETY PRECAUTIONS

GENERAL GUIDE LINES

1. It is advisable to insert an isolation transformer in the a.c. supply before servicing a hot chassis.
2. When servicing, observe the original lead dress in the high voltage circuits. If a short circuit is found, replace all parts that have been overheated or damaged by the short circuit.
3. After servicing, see that all the protective devices such as insulation barriers, insulation papers, shields and isolation R-C combinations are correctly installed.
4. When the receiver is not being used for a long period of time, unplug the power cord from the a.c. outlet.
5. Potentials as high as 31,5kV are present when this receiver is in operation. Operation of the receiver without the rear cover involves the danger of a shock hazard from the receiver power supply. Servicing should not be attempted by anyone who is not familiar with the precautions necessary when working on high voltage equipment. Always discharge the anode of the tube.
6. After servicing make the following leakage current checks to prevent the customer from being exposed to shock hazard.

LEAKAGE CURRENT COLD CHECK

1. Unplug the a.c. cord and connect a jumper between the two prongs of the plug.
2. Turn on the receiver's power switch.
3. Measure the resistance value with an ohmmeter, between the jumpered a.c. plug and each exposed metallic cabinet part on the receiver, such as screw heads, aerials, connectors, control shafts etc. When the exposed metallic part has a return path to the chassis, the reading should be between 4M ohm and 20M ohm. When the exposed metal does not have a return path to the chassis, the reading must be infinite.

LEAKAGE CURRENT HOT CHECK

1. Plug the a.c. cord directly into the a.c. outlet. Do not use an isolation transformer for this check.
2. Connect a 2kΩ 10W resistor in series with an exposed metallic part on the receiver and an earth, such as a water pipe.
3. Use an a.c. voltmeter with high impedance to measure the potential across the resistor.
4. Check each exposed metallic part and check the voltage at each point.
5. Reverse the a.c. plug at the outlet and repeat each of the above measurements.
6. The potential at any point should not exceed 1,4Vrms. In case a measurement is outside the limits specified, there is a possibility of a shock hazard, and the receiver should be repaired and rechecked before it is returned to the customer.

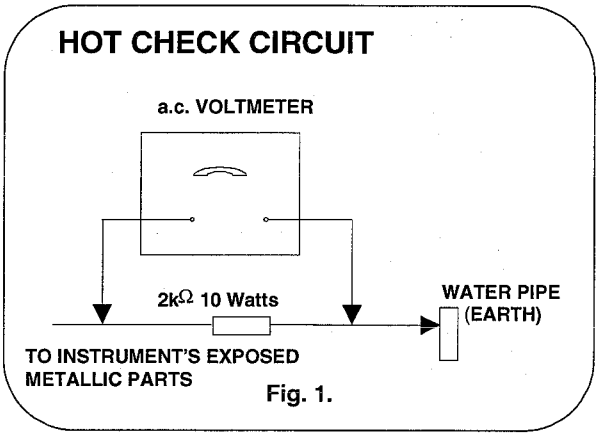


Fig. 1.

X-RADIATION WARNING

1. The potential sources of X-Radiation in TV sets are the high voltage section and the picture tube.
2. When using a picture tube test jig for service, ensure that the jig is capable of handling 31,5kV without causing X-Radiation.

NOTE: It is important to use an accurate periodically calibrated high voltage meter.

1. Set the brightness to minimum.
2. Measure the high voltage. The meter should indicate. 30,5kV ± 1kV.
   If the meter indication is out of tolerance, immediate service and correction is required to prevent the possibility of premature component failure.
3. To prevent any X-Radiation possibility, it is essential to use the specified tube.

SERVICE HINTS

How to remove the rear cover

1. Remove the 8 screws as shown in **Fig.2.**

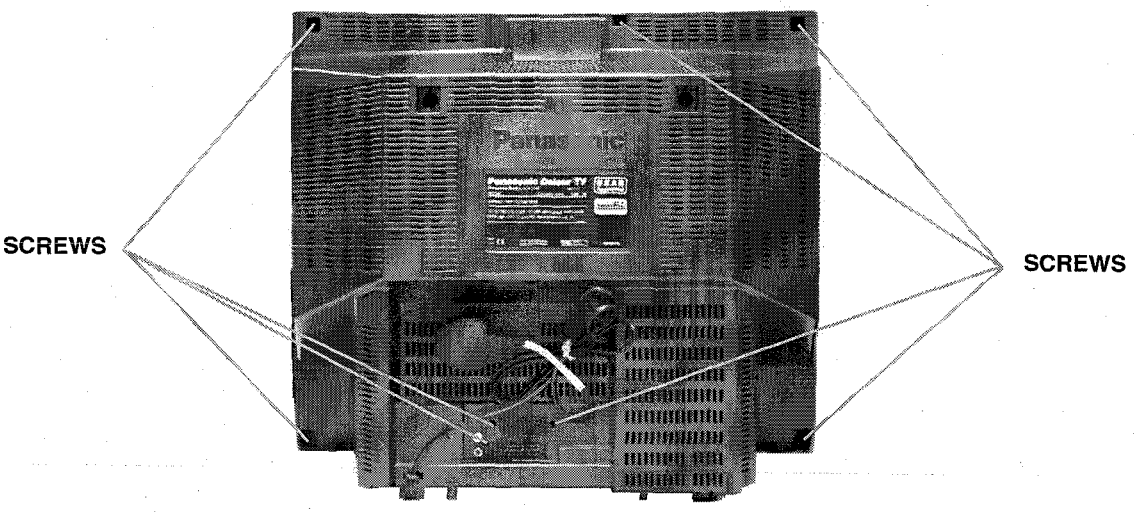


Fig.2.

LOCATION OF CONTROLS

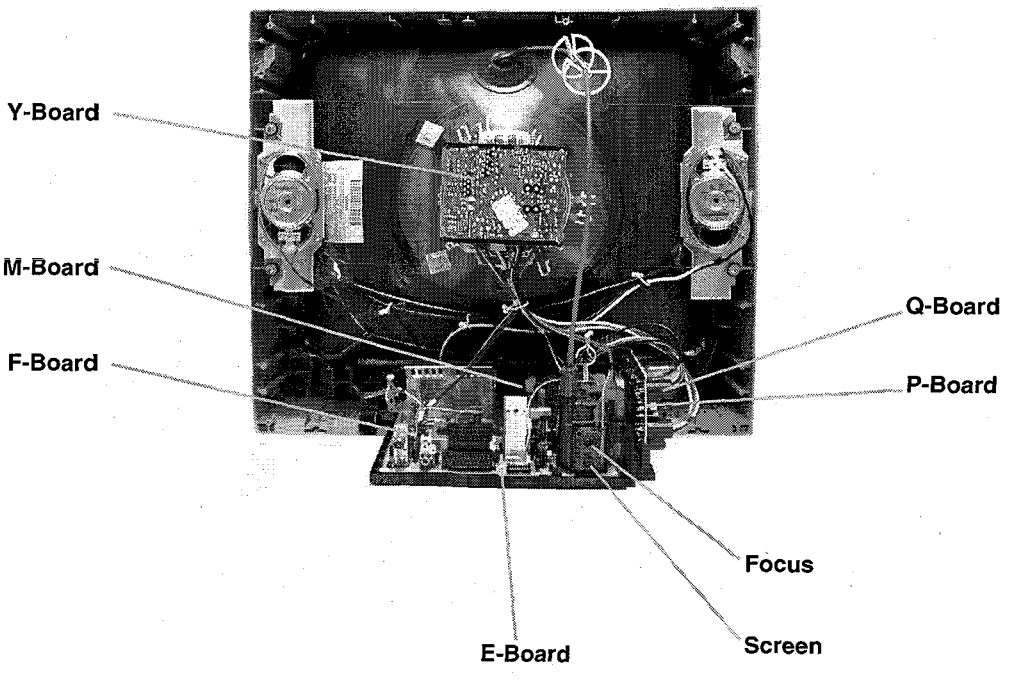


Fig.3.

HOW TO MOVE THE CHASSIS INTO SERVICE POSITION

1. Remove 2 screws **(A),** as shown in **Fig.4.**, and remove speaker assembly.
2. Hold and lift the rear of the chassis and gently pull the chassis toward you, as shown in **Fig.5.**
3. Release the respective wiring clips and move the EHT lead around to the left side of the CRT neck.
4. Elevate the chassis as shown in **Fig .6.**
5. Using a speaker screw, screw the chassis frame into the top speaker fixing rib **(B),** as shown in **Fig.6.**
6. After servicing replace the speaker, and ensure all wiring is returned to its original position before returning the receiver to the customer.

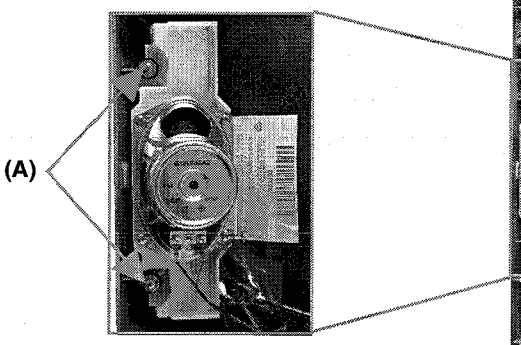


Fig .4.

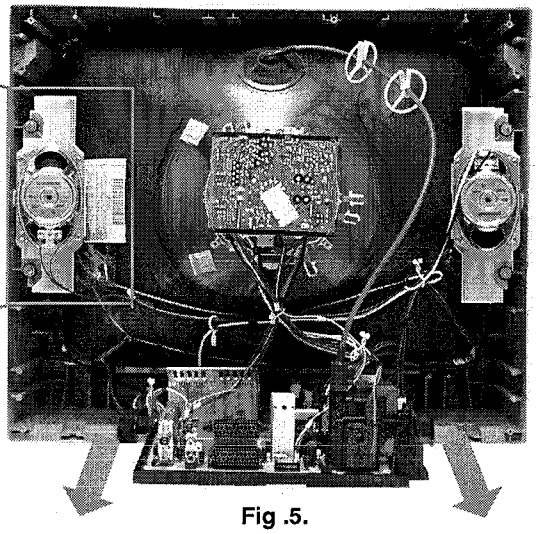


Fig .5.

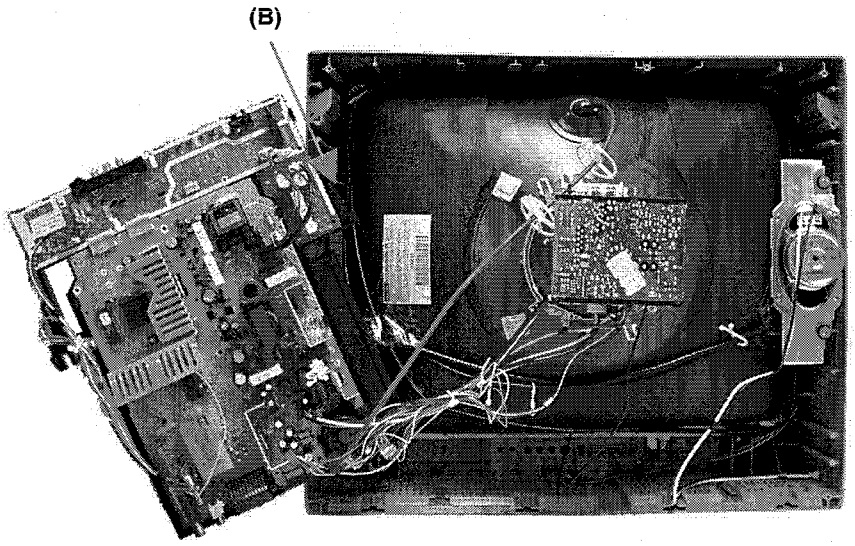


Fig .6.

Adjustment Procedure

Item / Preparation	Adjustments
+B SET-UP 1. Receive a Greyscale signal. 2. Set the controls :- Brightness Minimum Contrast Minimum Volume Minimum	1. Set the +B voltage up as follows:- Adjust **R811** so that **B2** shows 148V±1V. 2. Confirm the following voltages. **B9** 5 ± 0,25V **B10** 5 ± 0,25V **B5** 12 ± 0,5V **B11** 33 ± 1,5V **B4** 15 ± 1V **B7** 8 ± 0,5V **B12** 26 ± 2V **B8** 6 ± 1V **B3** 36 ± 1,5V **B13** 13 ± 1V **B1** 205 ± 10V **B14** 14 ± 1V
CUT OFF / Ug2 Test 1. Receive a Greyscale signal. 2. Degauss the tube externally. 3. Set the TV into Service Mode 1. 4. Select Cut off mode.	To adjust Cutoff connect an oscilloscope to the Blue cathode. Press **"STR"** and adjust "cutoff" value using the **"Yellow"** and **"Blue"** buttons until the black level is 160V±5V, press **"STR"** to store the value. Remove the oscilloscope. Select Ug2 adjustment and adjust the screen VR until the display shows "O.K."

FACTORY SETTINGS

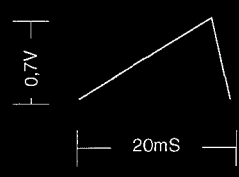
Self-check is used to automatically check the bus lines and hexadecimal code of the TV set.To enter Self-Check mode. press the down **(-/v)** button on the customer controls at the front of the TV set, at the same time pressing the **STATUS** ⊡ button on the remote control. To exit Self Check, switch off the TV set at the power button.

VPC	O.K.	PCB	O.K.
CIP	O.K.	Cab	O.K.
SRC	O.K.	Sum	Factory use only
DDP	O.K.		
TUN	O.K.		
E2	O.K.		
MSP	O.K.		
DPL	- -		
TX-25AS10D/M		**TX-25AS10F/M**	
OPTION1	39	OPTION1	39
OPTION2	1C	OPTION2	1C
OPTION3	0F	OPTION3	0F
OPTION4	40	OPTION4	40
OPTION5	FF	OPTION5	FD
OPTION6	A5	OPTION6	A5

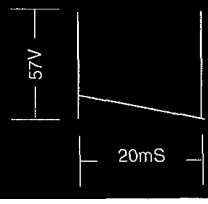
If the CCU ports have been checked and found to be incorrect or not located then " - - " will appear in place of "O.K.".

WAVEFORM PATTERN TABLE

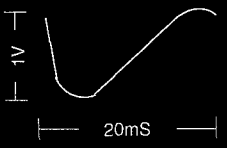
Vert Out
IC601 Pin 31



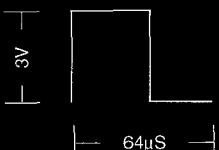
Vert Drive
IC451 Pin 2



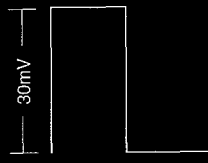
VFLB
IC451 Pin 3



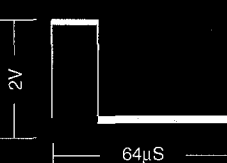
H - Out
IC601 Pin 50



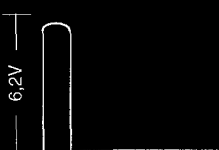
H - Out
IC701 Pin 5



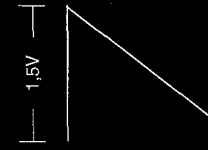
H - Pulse
Base Q503



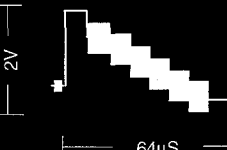
HFLB
IC601 Pin 13



HFLB
IC701 Pin 8



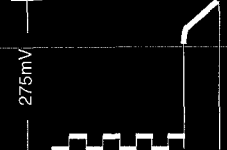
Video Out
IC601 Pin 59



R - Out
IC601 Pin 37

G - Out
IC601 Pin 38

B - Out
IC601 Pin 39

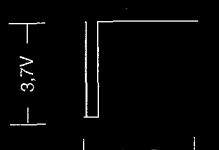


R - Out
E8 Pin 5

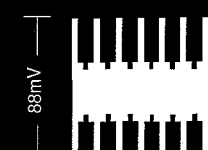
G - Out
E8 Pin 3

B - Out
E8 Pin 4

SCL
IC1201 Pin 3



SVM Out
IC601 Pin 34



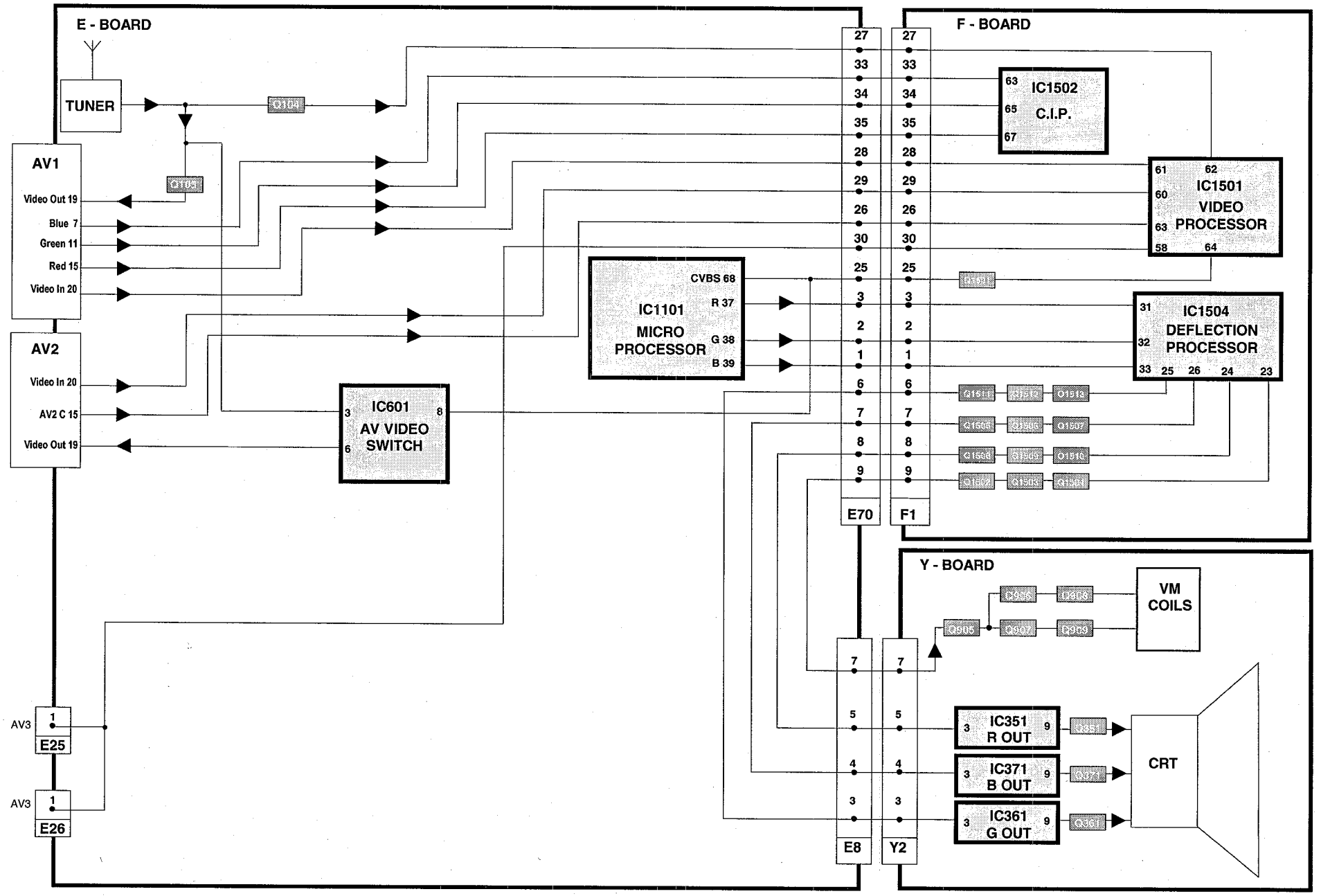
ALIGNMENT SETTINGS

(The figures below are nominal and used for representative purposes only.)

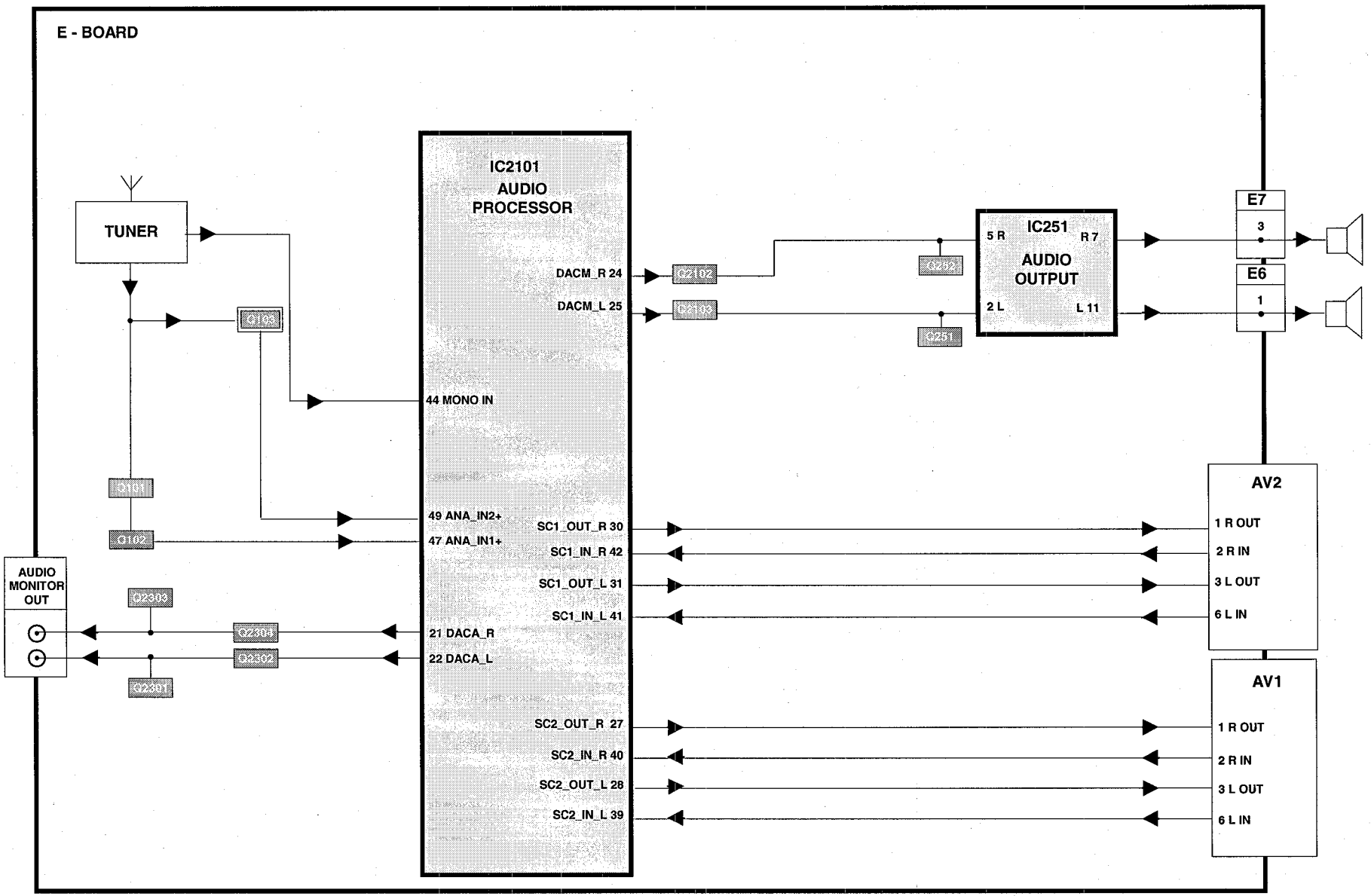
1. Set the Bass to maximum position, set the Treble to minimum position, press the volume down button **(-/v)** on the customer controls at the front of the TV and at the same time press the **INDEX** button on the remote control, this will place the TV into the Service Mode.
2. Press the **RED / GREEN** buttons to step up / down through the functions.
3. Press the **YELLOW / BLUE** buttons to alter the function values.
4. Press the **STR** button after each adjustment has been made to store the required values.
5. To exit the Service Mode, press the **"N"** button.

Alignment Function		**Settings / Special features**
Horizontal Position	H-Pos 061	Optimum setting.
Vertical Position	V-Pos 005	Optimum setting.
Horizontal Amplitude	H-Amp 055	Optimum setting.
Vert. Amplitude	V-Amp 054	Optimum setting.
EW-amplitude	E/W-Amp1 -128	Optimum setting.
EW-amplitude	E/W-Amp2 006	Optimum setting.
Trapezium-comp	Trapez-1 047	Optimum setting.
Trapezium-comp	Trapez-2 -128	Optimum setting.
Vertical Linearity	V-Lin 006	Optimum setting.
Vertical Symmetry	V-Sym 002	Optimum setting.
DVCO	DVCO -005	Receive a PAL Colour Bar Pattern. For DVCO alignment press **"Blue"** button, wait until the colours are changing slowly and press **"STR".**
Cut-off DC	Cut-off 0171	To adjust Cutoff connect an oscilloscope to the blue cathode. Press **"STR"** and adjust "cutoff" value using the **"Yellow"** and **"Blue"** buttons until the black level is 160V±5V press **"STR"** to store the value. Remove the oscilloscope. Select Ug2 adjustment and adjust the screen VR until the display shows "O.K."
Ug2 Test	Ug2 055 O.K.	
Highlight Lowlight	High 0902 0777 0864 Low 0117 0132 0112	Optimum setting.
Sub-Brightness	Sub-Brightness 255	Optimum setting.

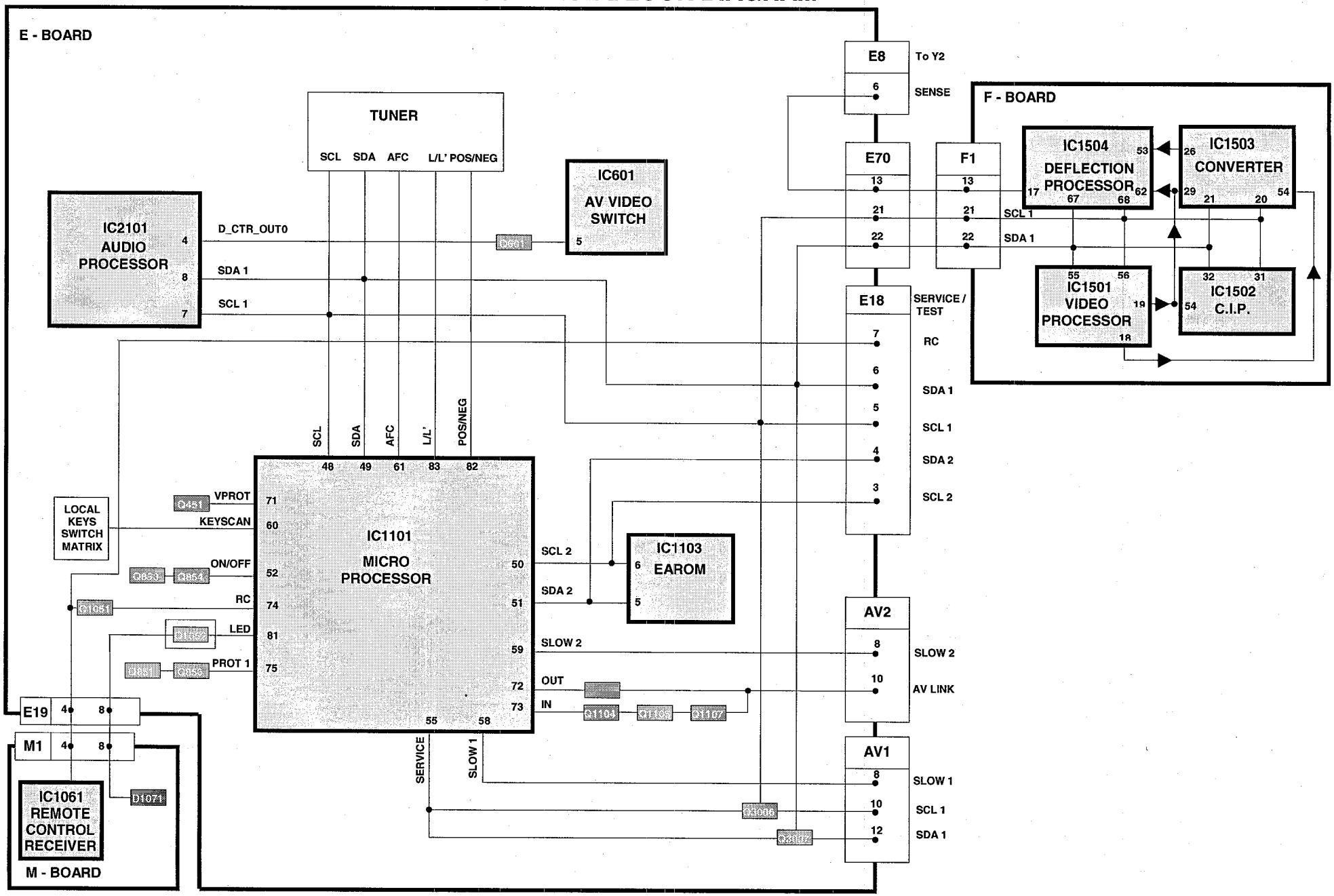
VIDEO BLOCK DIAGRAM



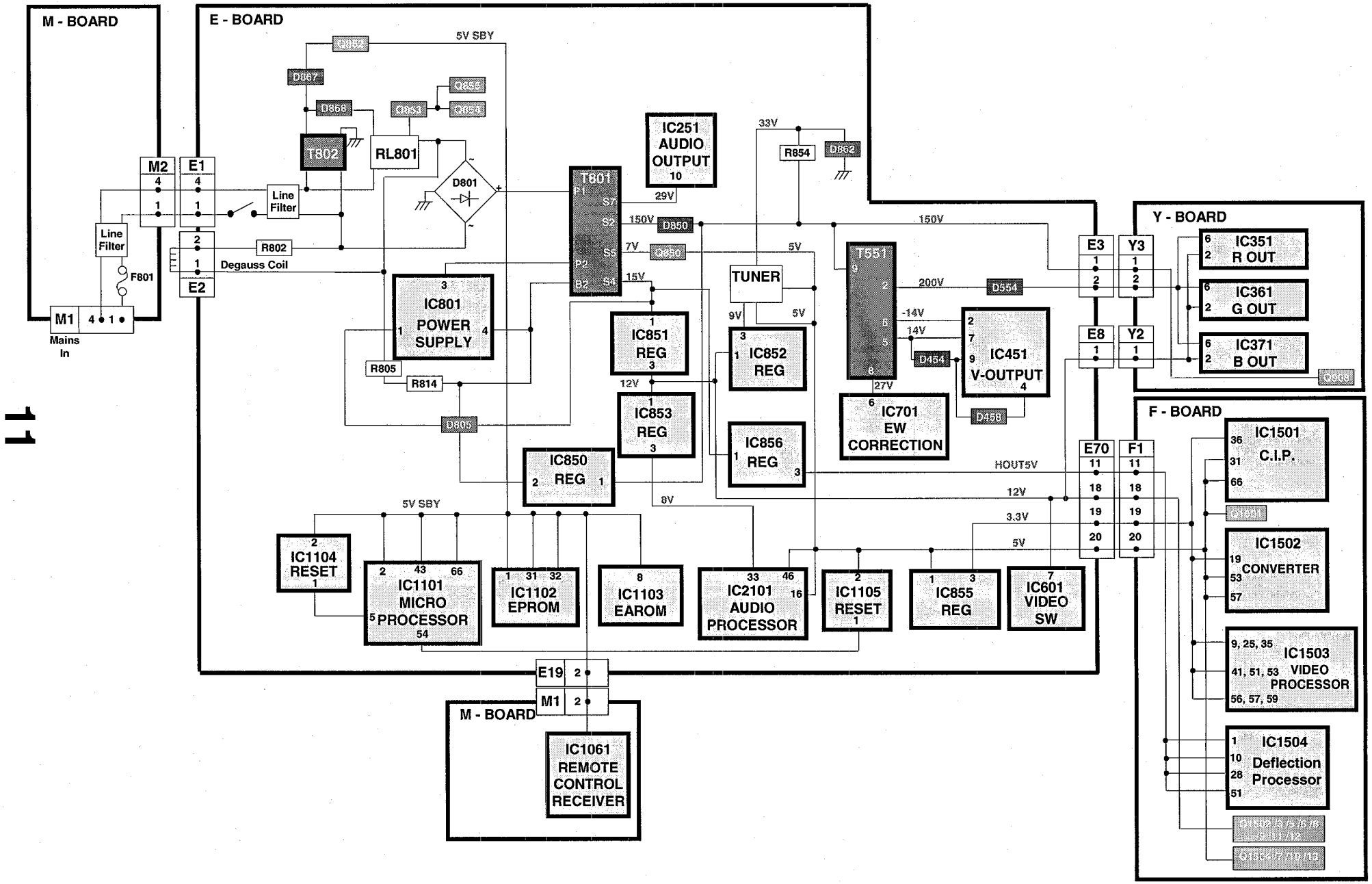
AUDIO BLOCK DIAGRAM



CONTROL BLOCK DIAGRAM

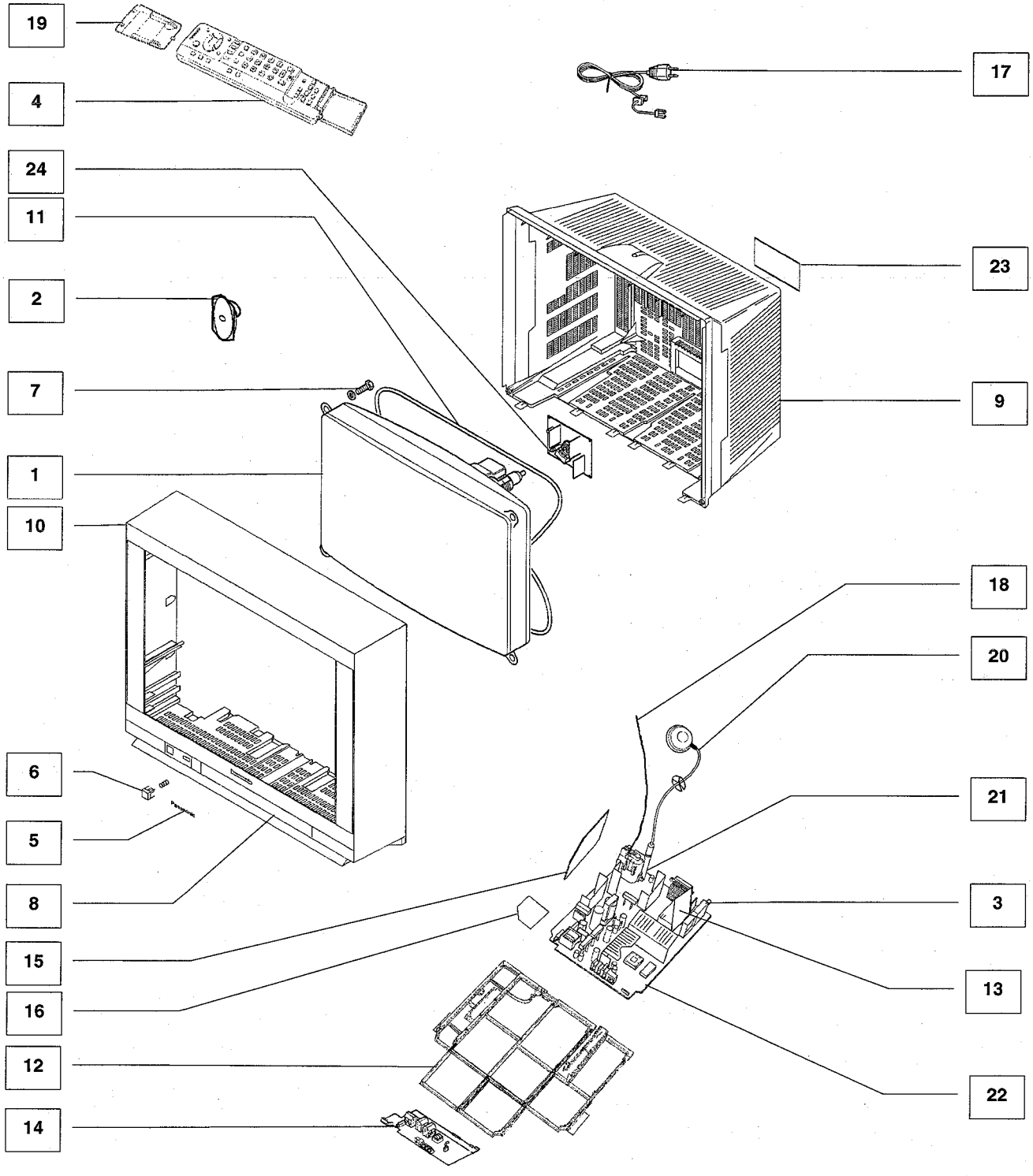


POWER SUPPLY BLOCK DIAGRAM



PARTS LOCATION

NOTE:
The numbers on the exploded view below refer to the mechanical section of the Replacement Parts List.



REPLACEMENT PARTS LIST

Important Safety Notice

Components Identified by ⚠ mark have special characteristics important for safety.
* When replacing any of these components, use only manufacturers specified parts.
In case of ordering these spare parts, please always add the complete Model-Type number to your order.

Cct Ref	Parts Number	Description	
COMMON PARTS			
EXPLODED VIEW			
1	A60LUQ085X05	C.R.T.	⚠
2	EABG12147F2	SPEAKER	
3	ENG29505GR	TUNER	⚠
4	EUR511211	REMOTE CONTROL	
5	TBMA060	PANASONIC BADGE	
6	TBX8E088	POWER BUTTON	
7	THT1065R	CRT FIXING SCREW	
8	TKP8E1329	DOOR LID	
9	TKU8E00630	REAR COVER	
10	TKY8E601	CABINET	⚠
11	TLK8E05161	DEGAUSS COIL	⚠
12	TMX8E046	CHASSIS FRAME	⚠
13	TNP8EF007AB	F P.C.B.	⚠
14	TNP8EM024AA	M P.C.B.	⚠
15	TNP8EP017AP	P P.C.B	⚠
16	TNP8EQ003AB	Q-P.C.B.	
17	TXASX01CEFG	AC CORD	⚠
18	TXJ/FC0DEG	FOCUS LEAD ASSY	⚠
19	UR51EC904A	BATTERY COVER (REMOTE)	
20	ZTBZAD550A	ANODE CABLE	⚠
21	ZTFM05013A	F.B.T.	⚠
MISCELLANEOUS COMPONENTS			
.	PCSZT-084A-1	IC SOCKET	
.	TBL8E008	SET FOOT	
.	TBL8E009	SET FOOT	
.	TBM8E2145	PRESET LABEL	
.	TEK6940	LID CATCH	
.	TES2298	CRT EARTH SPRING	
.	TKK4G8533	LED PANEL	
.	TKP4G11460	SMOKED PANEL	
.	TKROA0304	HANDLE	
.	TMW8E020-1	LED HOLDER	
.	TMX8E041	PCB BRACKET	
.	TPC8E4840	CARTON	
.	TPD8E732	TOP CUSHONS	
.	TPD8E733	BOTTOM CUSHION	
.	UM-3DJ-2P	BATTERY PACK	
I.C.s			
IC251	LA4282	AUDIO OUTPUT	
IC351	TDA6101Q/N3	R.G.B. PROCESSOR	
IC361	TDA6101Q/N3	R.G.B. PROCESSOR	
IC371	TDA6101Q/N3	R.G.B. PROCESSOR	
IC381	TL431CLPM	REGULATOR	
IC451	LA7845N	VERTICAL OUTPUT	

Cct Ref	Parts Number	Description	
IC601	TEA2114	VIDEO SWITCHING	
IC701	TEA2031A	E/W CORRECTION	
IC801	STRF6656LF57	POWER SUPPLY	
IC850	SE140N	ERROR AMPLIFIER	
IC851	AN7812LB1	12V REGULATOR	
IC852	AN78M09LB	9V REGULATOR	
IC853	AN78L08TA	8V REGULATOR	
IC855	BA033T-M3	REGULATOR	
IC856	AN7805LB	5V REGULATOR	
IC1061	RPM6937-V4	LED RECEIVER	
IC1101	SDA5450C59	MICRO PROCESSOR	
IC1102	27C2001-N05	EEPROM*	⚠
IC1104	MN1381-R(TA)	RESET	
IC1105	MN1381-T(TA)	RESET	
IC1501	VPC3215CB8TP	VIDEO PROCESSOR	
IC1502	CIP3250APSB1	C.I.P.	
IC1503	SDA9400	MICRO PROCESSOR	
IC1504	DDP3310BPSE4	VIDEO PROCESSOR	
IC2101	MSP3410DPOC5	AUDIO PROCESSOR	
FUSES			
F802-2	EYF52BC	FUSE HOLDER	
F802-1	EYF52BC	FUSE HOLDER	
F802	XBA2C50TH15	FUSE	⚠
DIODES			
D101	MA3020TX	DIODE	
D102	MA3020TX	DIODE	
D251	MA2180BLFS	DIODE	
D253	MA700TA5	DIODE	
D254	MA700TA5	DIODE	
D351	ERA15-04V3	DIODE	
D352	ERA15-04V3	DIODE	
D361	ERA15-04V3	DIODE	
D362	ERA15-04V3	DIODE	
D371	ERA15-04V3	DIODE	
D372	ERA15-04V3	DIODE	
D376	MA165TA5	DIODE	
D377	MA165TA5	DIODE	
D378	MA165TA5	DIODE	
D387	MA2160LFS	DIODE	
D453	MA165TA5	DIODE	
D454	EU02	DIODE	
D456	MTZJT-777.5B	DIODE	
D457	MA165TA5	DIODE	
D501	MA165TA5	DIODE	
D502	1SR124-4AT82	DIODE	
D511	MTZJ4.7C	DIODE	
D553	1SR124-4AT82	DIODE	
D554	1SR124-4AT82	DIODE	
D556	MA165TA5	DIODE	
D557	TVSRU2AMLFA5	DIODE	
D558	EU02	DIODE	
D560	RH3GLF102	DIODE	

Cct Ref	Parts Number	Description
D561	UDZTE-1722B	DIODE
D562	1SS355TE-17	DIODE
D580	FMV-3GULF730	DIODE
D601	MA165TA5	DIODE
D602	MA165TA5	DIODE
D603	MA165TA5	DIODE
D604	MA165TA5	DIODE
D609	1SR124-4AT82	DIODE
D617	MA3068MTX	DIODE
D620	MA165TA5	DIODE
D701	MA165TA5	DIODE
D702	MTZJT-775.1C	DIODE
D704	MA29TA5	DIODE
D705	MTZJT776.2B	DIODE
D706	MA165TA5	DIODE
D707	AU02V0	DIODE
D708	MA165TA5	DIODE
D709	MTZJT-7736A	DIODE
D710	MTZJT-7716C	DIODE
D801	RBV-608LF-B	DIODE
D803	1SR124-4AT82	DIODE
D804	1SR124-4AT82	DIODE
D805	TLP621GR-LF2	PHOTO COUPLER ⚠
D806	1SR124-4AT82	DIODE
D850	RU4BLF-L1	DIODE
D851	MTZJT776.2B	DIODE
D852	MA165TA5	DIODE
D853	MA2180BLFS	DIODE
D854	S3L20U04P15	DIODE
D855	D10SC6MRL	DIODE
D856	RU4AMLF-M1	DIODE
D857	MTZJT-775.1A	DIODE
D858	MA165TA5	DIODE
D859	MA165TA5	DIODE
D860	MA165TA5	DIODE
D861	MA165TA5	DIODE
D862	MTZJT-7736A	DIODE
D863	MA165TA5	DIODE
D864	MA165TA5	DIODE
D865	MA165TA5	DIODE
D866	MA165TA5	DIODE
D867	EK06-V0	DIODE
D868	1N4150T-77	DIODE
D869	1N4150T-77	DIODE
D870	MA165TA5	DIODE
D871	1N4150T-77	DIODE
D873	MTZJT-775.6C	DIODE
D874	1SR124-4AT82	DIODE
D875	BZX79A75A26A	DIODE
D890	MA165TA5	DIODE
D891	MA165TA5	DIODE
D901	1SS254T-77	DIODE
D902	1SS254T-77	DIODE
D903	1SS254T-77	DIODE
D907	MA165TA5	DIODE
D910	R2KNLFA1	DIODE
D1061	SLR56UR3FLF	LED
D1101	MA165TA5	DIODE
D1104	MA165TA5	DIODE
D1105	MA165TA5	DIODE
D1131	MTZJT-775.6C	DIODE
D2101	MA723TA5	DIODE
D2102	MA723TA5	DIODE
D2103	MA723TA5	DIODE
D2104	MA723TA5	DIODE
D2105	MTZJT-778.2C	DIODE

Cct Ref	Parts Number	Description
D2303	MA723TA5	DIODE
D2304	MA723TA5	DIODE
D3201	MTZJT-778.2C	DIODE
D3202	MTZJT-778.2C	DIODE
D3351	1SS254T-77	DIODE
D3352	MA165TA5	DIODE
D3353	MA165TA5	DIODE
D3354	MA165TA5	DIODE
R842	232266296706	THERMISTOR ⚠
R843	232266296706	THERMISTOR ⚠
TRANSISTORS		
Q101	BC847B	TRANSISTOR
Q102	BC847B	TRANSISTOR
Q103	BC847B	TRANSISTOR
Q104	BC847B	TRANSISTOR
Q105	BC847B	TRANSISTOR
Q251	2SD1328STX	TRANSISTOR
Q252	2SD1328STX	TRANSISTOR
Q253	BC847B	TRANSISTOR
Q254	BC847B	TRANSISTOR
Q351	2SA1767	TRANSISTOR
Q361	2SA1767	TRANSISTOR
Q371	2SA1767	TRANSISTOR
Q451	BC857B	TRANSISTOR
Q503	2SK2962TPE6	TRANSISTOR
Q551	2SC5144LB228	TRANSISTOR
Q552	2SC1473ATA	TRANSISTOR
Q553	BC847B	TRANSISTOR
Q601	BC847B	TRANSISTOR
Q701	BC857B	TRANSISTOR
Q702	BC847B	TRANSISTOR
Q703	IRF644R-M3S	TRANSISTOR
Q850	2SD2396K-M3	TRANSISTOR
Q851	BC857B	TRANSISTOR
Q852	2SD1858TV2	TRANSISTOR
Q853	BC847B	TRANSISTOR
Q854	BC847B	TRANSISTOR
Q855	BC847B	TRANSISTOR
Q856	BC847B	TRANSISTOR
Q857	2SA1018QTA	TRANSISTOR
Q905	BC847B	TRANSISTOR
Q906	BC847B	TRANSISTOR
Q907	BC857B	TRANSISTOR
Q908	2SA1535ARLB	TRANSISTOR
Q909	2SC3944ARLB	TRANSISTOR
Q1051	BC847B	TRANSISTOR
Q1062	BC847B	TRANSISTOR
Q1104	BC847B	TRANSISTOR
Q1105	BC847B	TRANSISTOR
Q1106	BC847B	TRANSISTOR
Q1107	BC847B	TRANSISTOR
Q1108	BC847B	TRANSISTOR
Q1501	BC847B	TRANSISTOR
Q1502	BC857B	TRANSISTOR
Q1503	BC847B	TRANSISTOR
Q1504	BC847B	TRANSISTOR
Q1505	BC857B	TRANSISTOR
Q1506	BC847B	TRANSISTOR
Q1507	BC847B	TRANSISTOR
Q1508	BC857B	TRANSISTOR
Q1509	BC847B	TRANSISTOR
Q1510	BC847B	TRANSISTOR
Q1511	BC857B	TRANSISTOR
Q1512	BC847B	TRANSISTOR
Q1513	BC847B	TRANSISTOR
Q1514	BC847B	TRANSISTOR

Cct Ref	Parts Number	Description	
Q1515	BC847B	TRANSISTOR	
Q2101	BC857B	TRANSISTOR	
Q2102	BC857B	TRANSISTOR	
Q2103	BC857B	TRANSISTOR	
Q2301	BC847B	TRANSISTOR	
Q2302	BC857B	TRANSISTOR	
Q2303	BC847B	TRANSISTOR	
Q2304	BC857B	TRANSISTOR	
Q3006	BC847B	TRANSISTOR	
Q3007	BC847B	TRANSISTOR	
Q3201	BC847B	TRANSISTOR	
Q3202	BC847B	TRANSISTOR	
Q3203	BC857B	TRANSISTOR	
Q3204	BC857B	TRANSISTOR	
Q3205	BC847B	TRANSISTOR	
Q3206	BC847B	TRANSISTOR	
Q3207	BC847B	TRANSISTOR	
Q3208	BC847B	TRANSISTOR	
Q3209	BC847B	TRANSISTOR	
Q3352	BC857B	TRANSISTOR	
TRANSFORMERS			
T501	ETH19Y193AY	TRANSFORMER	⚠
T801	ETS42AE2G6AD	TRANSFORMER	⚠
T802	ETP35KAN619U	TRANSFORMER	⚠
COILS			
J26	EXCELDR35V	COIL	
J212	EXCELSA35V	COIL	
L101	TLT100K991R	COIL	
L102	TLT068K991R	COIL	
L103	EXCELSA35B	COIL	
L104	TLTACT4R7K	COIL	
L105	TLTACTR47K	COIL	
L106	TLTACT100K	COIL	
L107	TLTACT6R8K	COIL	
L114	ELJFC2R2KF	COIL	
L115	ELJFC2R2KF	COIL	
L301	TLTACT4R7K	COIL	
L353	TLT150K991R	COIL	
L363	TLT100K991R	COIL	
L373	TLT150K991R	COIL	
L381	TLT220K991R	COIL	
L382	ELESN6R8KA	COIL	
L451	EXCELSA35T	COIL	
L501	EXCELSA35T	COIL	
L581	ELHKLB028B	COIL	
L582	ELC18B181F	COIL	
L583	ELC10D3R3E	COIL	
L584	ELHKLB067B	COIL	
L586	EXCELDR35C	COIL	
L606	ELESN100KA	COIL	
L701	ELC18B271E	COIL	
L704	ELC10D332E	COIL	
L705	EXCELDR35V	COIL	
L806	ETQR42T005A	COIL	
L850	EXCELSA35T	COIL	
L851	EXCELSA35T	COIL	
L852	ELEIE470KA	COIL	
L855	EXCELSA35T	COIL	
L856	EXCELSA39V	COIL	
L910	EXCELSA35T	COIL	
L911	EXCELSA35T	COIL	
L912	EXCELSA35T	COIL	
L1061	TLT331K991R	COIL	
L1103	TLTACT100K	COIL	
L1104	EXCELSA35T	COIL	
L1105	ELJFC2R2KF	COIL	

Cct Ref	Parts Number	Description			
L1501	ELESN2R2KA	COIL			
L1502	ELESN2R2KA	COIL			
L1503	ELESN2R2KA	COIL			
L1504	ELESN2R2KA	COIL			
L1505	ELESN100KA	COIL			
L1506	ELESN100KA	COIL			
L1507	ELESNR22KA	COIL			
L1508	ELESNR22KA	COIL			
L1509	ELESN100KA	COIL			
L1510	ELESN100KA	COIL			
L1514	ELESN100KA	COIL			
L1515	ELESNR39KA	COIL			
L1516	ELESN4R7KA	COIL			
L1517	ELESN4R7KA	COIL			
L1518	ELESN4R7KA	COIL			
L1519	ELESNR39KA	COIL			
L1520	ELESN2R2KA	COIL			
L1521	ELESN1R0KA	COIL			
L1522	ELESN2R2KA	COIL			
L1523	ELESN2R2KA	COIL			
L1524	ELESN2R2KA	COIL			
L1525	ELESN100KA	COIL			
L1526	ELESN100KA	COIL			
L1527	ELESN100KA	COIL			
L1528	ELESN100KA	COIL			
L1529	ELESN100KA	COIL			
L2101	TLTACT100K	COIL			
L2103	EXCELSA35T	COIL			
L2104	TLTACT4R7K	COIL			
L3001	ELEMV1R5MA	COIL			
L3002	ELEMV1R5MA	COIL			
L3003	ELEMV1R5MA	COIL			
L3004	ELEMV1R5MA	COIL			
L3201	ELEBR6R8KA	COIL			
L3202	ELEBR6R8KA	COIL			
L3204	TLT331K991R	COIL			
FILTERS					
L1901	ELF18N012A	LINE FILTER			
L1902	ELF18N012A	LINE FILTER			
X101	EFCT6504BF	FILTER			
X102	EFCT7004BF	CERAMIC FILTER			
CRYSTALS					
X1101	TSSA121	CRYSTAL			
X1501	4730007267	CRYSTAL			
X1502	4730007341	CRYSTAL			
X2101	4730007158	CRYSTAL			
RESISTORS					
C510	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA1	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA2	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA3	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA4	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA5	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA6	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA7	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA8	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA9	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA10	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA12	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA13	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA14	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA15	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA16	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA17	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA18	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω

Cct Ref	Parts Number	Description			
JA19	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA20	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA101	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA102	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA103	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA104	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA105	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA106	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA107	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA108	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA109	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA110	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA111	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA112	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA113	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA114	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA115	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA116	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA117	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA118	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA119	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA200	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA201	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA202	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA203	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA204	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JA205	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JA206	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JSE3	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE4	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE10	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE12	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE13	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE18	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE26	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE33	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE35	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE42	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE43	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSE48	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JSE49	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JSF1	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JSF2	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JSF3	ERJ8GEY0R00	S.M.CARB	.125W	5%	0 Ω
JSM7	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSM8	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSM10	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
JSY04	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R101	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω
R102	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R103	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R104	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω
R105	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R106	ERJ6GEYJ680	S.M.CARB	0.1W	5%	68 Ω
R107	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R108	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R109	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R110	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R111	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39K Ω
R112	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R113	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R116	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω
R117	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R118	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R121	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R251	ERJ6GEYJ181	S.M.CARB	0.1W	5%	180 Ω

Cct Ref	Parts Number	Description			
R252	ERJ6GEYJ432	S.M.CARB	0.1W	5%	4K3 Ω
R253	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R254	ERJ6GEYJ181	S.M.CARB	0.1W	5%	180 Ω
R255	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R256	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R257	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56 Ω
R258	ERJ6GEYJ432	S.M.CARB	0.1W	5%	4K3 Ω
R259	ERJ6GEYJ560	S.M.CARB	0.1W	5%	56 Ω
R260	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R261	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R262	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R263	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R264	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R265	ERD25TJ2R2	CARBON	0.25W	5%	2R2 Ω
R266	ERD25TJ2R2	CARBON	0.25W	5%	2R2 Ω
R267	ERF7ZK4R7	WOUND	7W	10%	4R7 Ω ⚠
R268	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R269	ERQ14AJ101	METAL	0.25W	5%	100 Ω ⚠
R271	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R272	ERF7ZK4R7	WOUND	7W	10%	4R7 Ω ⚠
R350	ERQ12AJ151P	FUSIBLE	0.5W	5%	150 Ω ⚠
R352	ERJ6GEYJ202	S.M.CARB	0.1W	5%	2K Ω
R355	ERG1ANJP683H	METAL	0.5W	5%	68K Ω
R356	ERJ6GEYJ181	S.M.CARB	0.1W	5%	180 Ω
R357	ERJ6GEYJ822	S.M.CARB	0.1W	5%	8K2 Ω
R358	ERDS1TJ821	CARBON	0.5W	5%	820 Ω
R360	ERO50PKF8251	METAL	0.5W	5%	8M2 Ω ⚠
R362	ERJ6GEYJ202	S.M.CARB	0.1W	5%	2K Ω
R365	ERG1ANJP683H	METAL	0.5W	5%	68K Ω
R366	ERJ6GEYJ181	S.M.CARB	0.1W	5%	180 Ω
R367	ERJ6GEYJ822	S.M.CARB	0.1W	5%	8K2 Ω
R368	ERDS1TJ821	CARBON	0.5W	5%	820 Ω
R372	ERJ6GEYJ202	S.M.CARB	0.1W	5%	2K Ω
R375	ERG1ANJP683H	METAL	0.5W	5%	68K Ω
R376	ERJ6GEYJ181	S.M.CARB	0.1W	5%	180 Ω
R377	ERJ6GEYJ822	S.M.CARB	0.1W	5%	8K2 Ω
R378	ERDS1TJ821	CARBON	0.5W	5%	820 Ω
R382	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R383	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R385	ERQ12HKR56	METAL	0.5W	10%	R56 Ω ⚠
R394	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820 Ω
R396	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820 Ω
R398	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820 Ω
R451	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R452	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R453	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R454	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39K Ω
R455	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R456	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R457	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R458	ERDS1TJ1R0	CARBON	0.5W	5%	1 Ω
R459	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R460	ERG1SJS471P	METAL	1W	5%	470 Ω
R461	ERX2SJS1R5H	FUSIBLE	2W	5%	1R5 Ω
R463	ERDS2TJ222T	CARBON	0.5W	5%	2K2 Ω
R464	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω
R465	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820 Ω
R467	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R502	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R503	ERJ6GEYJ105	S.M.CARB	0.1W	5%	1M Ω
R507	ERG2ANJP150H	METAL	2W	5%	15 Ω
R509	ERG1SJ222E	METAL	0.5W	5%	2K2 Ω
R510	ERG1SJ222E	METAL	0.5W	5%	2K2 Ω
R551	ERX3SJSR22	METAL	3W	5%	R22 Ω ⚠
R555	ERQ12HKR33	METAL	0.5W	5%	R33 Ω ⚠
R558	ERDS1TJ124	CARBON	0.5W	5%	120K Ω

Cct Ref	Parts Number	Description				
R559	ERQ12HKR82	FUSIBLE	0.5W	10%	R82 Ω	⚠
R560	ERJ6GEYJ274	S.M.CARB	0.1W	5%	270K Ω	
R561	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω	
R563	ERJ6GEYJ824	S.M.CARB	0.1W	5%	820K Ω	
R564	ERJ6GEYJ333	S.M.CARB	0.1W	5%	33K Ω	
R566	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56K Ω	
R567	ERF7ZK1R0	WOUND	7W	10%	1 Ω	⚠
R568	ERDS1TJ120	CARBON	0.5W	5%	12 Ω	
R569	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R571	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R572	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R573	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R581	ERQ2CJP821	METAL	2W	5%	820 Ω	⚠
R582	ERG3FJ102H	METAL	3W	5%	1K Ω	⚠
R583	ERG3FJ821	METAL	3W	5%	820 Ω	⚠
R603	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω	
R604	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R605	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R606	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R607	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R608	ERJ6GEYJ201	S.M.CARB	0.1W	5%	200 Ω	
R609	ERJ6GEYJ201	S.M.CARB	0.1W	5%	200 Ω	
R610	ERJ6GEYJ242	S.M.CARB	0.1W	5%	2K4 Ω	
R611	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R612	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R620	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R622	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R647	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R648	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω	
R650	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R701	ERQ12AJ330P	METAL	0.5W	5%	330 Ω	⚠
R702	ERX2SJ2R7	FUSIBLE	2W	5%	2R7 Ω	
R703	ERG2FJ821	METAL	2W	5%	820 Ω	⚠
R704	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56K Ω	
R705	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω	
R706	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R707	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω	
R708	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39K Ω	
R709	ERJ6GEYJ393	S.M.CARB	0.1W	5%	39K Ω	
R710	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω	
R711	ERG1SJ101	METAL	1W	5%	100 Ω	
R712	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R714	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω	
R715	ERD25TJ272F	CARBON	0.25W	5%	2K7 Ω	
R716	ERQ12AJ680P	METAL	0.5W	5%	68 Ω	⚠
R718	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R719	ERJ6GEYJ224	S.M.CARB	0.1W	5%	220K Ω	
R720	ERJ6GEYJ105	S.M.CARB	0.1W	5%	1M Ω	
R721	ERJ6GEYJ563	S.M.CARB	0.1W	5%	56K Ω	
R802	ERC12ZGK335D	SOLID	0.5W	10%	3M3 Ω	⚠
R805	ERD25TJ473	CARBON	0.25W	5%	47K Ω	
R806	ERD25TJ100	CARBON	0.25W	5%	10 Ω	
R807	ERD25TJ332	CARBON	0.25W	5%	3K3 Ω	
R809	ERD25TJ681	CARBON	0.25W	5%	680 Ω	
R810	ERW2PKR22	WOUND	2W	5%	22 Ω	
R811	ERW2PKR22	WOUND	2W	5%	22 Ω	
R812	ERD75TAJ825	CARBON	0.75W	5%	8M2 Ω	⚠
R813	ERF7ZK2R7	WOUND	7W	20%	2R7 Ω	⚠
R814	ERD25TJ473	CARBON	0.25W	5%	47K Ω	
R815	ERD25TJ222	CARBON	0.25W	5%	2K2 Ω	
R850	ERD25TJ122	CARBON	0.25W	5%	1K2 Ω	
R852	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R853	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R854	ERG2FJ223	METAL	2W	5%	22K Ω	⚠
R855	ERJ6GEYJ752	S.M.CARB	0.1W	5%	7K5 Ω	
R856	ERJ6GEYJ752	S.M.CARB	0.1W	5%	7K5 Ω	

Cct Ref	Parts Number	Description				
R857	ERJ6GEYJ752	S.M.CARB	0.1W	5%	7K5 Ω	
R858	ERJ6GEYJ752	S.M.CARB	0.1W	5%	7K5 Ω	
R859	ERJ6GEYJ753	S.M.CARB	0.1W	5%	75K Ω	
R861	ERDS2TJ221T	CARBON	0.5W	5%	220 Ω	
R862	ERD25TJ272F	CARBON	0.25W	5%	2K7 Ω	
R863	ERDS1TJ560	CARBON	0.5W	5%	56 Ω	
R864	ERDS1TJ151	CARBON	0.5W	5%	150 Ω	
R865	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R867	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R868	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω	
R869	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R870	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7 Ω	
R871	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
R872	ERG1SJ183	METAL	1W	5%	18K Ω	
R873	ERG1SJ223	METAL	1W	5%	22K Ω	
R874	ERDS2TJ104T	CARBON	2W	5%	100K Ω	
R876	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R877	ERW2PKR47	WOUND	2W	10%	R47 Ω	⚠
R878	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω	
R879	ERG3FJ680H	METAL	3W	5%	68 Ω	⚠
R880	ERG5FJ120H	METAL	5W	5%	12 Ω	⚠
R882	ERG2FJ330H	METAL	2W	5%	33 Ω	⚠
R890	ERX1FJ3R9P	FUSIBLE	1W	5%	3R9 Ω	⚠
R913	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18K Ω	
R914	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω	
R915	ERJ6GEYJ821	S.M.CARB	0.1W	5%	820 Ω	
R916	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω	
R917	ERJ6GEYJ121	S.M.CARB	0.1W	5%	120 Ω	
R918	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R919	ERQ14AJW390	FUSIBLE	0.25W	5%	39 Ω	⚠
R920	ERQ14AJW390	FUSIBLE	0.25W	5%	39 Ω	⚠
R922	ERDS2TJ683T	CARBON	2W	5%	68K Ω	
R923	ERDS2TJ683T	CARBON	2W	5%	68K Ω	
R924	ERDS1FYJ390	CARBON	0.5W	5%	39 Ω	⚠
R925	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R926	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R927	ERD25TJ122	CARBON	0.25W	5%	1K2 Ω	
R928	ERD25TJ5R6	CARBON	0.25W	5%	5R6 Ω	
R929	ERDS1FVJ471	CARBON	0.5W	5%	470 Ω	⚠
R931	ERDS1FYJ390	CARBON	0.5W	5%	39 Ω	⚠
R935	ERQ14AJW3R9	FUSIBLE	0.25W	5%	3R9 Ω	⚠
R936	ERQ1CJP102	FUSIBLE	1W	5%	1K Ω	⚠
R937	ERQ14AJW100	FUSIBLE	0.25W	5%	10 Ω	⚠
R938	ERD25TJ122	CARBON	0.25W	5%	1K2 Ω	
R941	ERD25TJ5R6	CARBON	0.25W	5%	5R6 Ω	
R1051	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R1062	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270 Ω	
R1063	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R1101	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1102	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R1103	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω	
R1104	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω	
R1105	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1106	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R1107	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R1108	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R1109	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R1110	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R1111	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R1112	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω	
R1113	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1115	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R1116	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1117	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R1118	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	
R1119	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω	

Cct Ref	Parts Number	Description			
R1120	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1121	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1123	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1124	ERJ6GEYJ1R0	S.M.CARB	0.1W	5%	1 Ω
R1125	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1126	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1127	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1128	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω
R1129	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω
R1130	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1131	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1132	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1133	ERJ6GEYJ272	S.M.CARB	0.1W	5%	2K7 Ω
R1136	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω
R1137	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1138	ERJ6GEYJ105	S.M.CARB	0.1W	5%	1M Ω
R1139	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1140	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1141	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1142	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1145	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1146	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1147	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1148	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1149	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R1151	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1152	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1154	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1155	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1156	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1157	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1158	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1159	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1160	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R1161	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1163	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1164	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1165	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1166	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1167	ERJ6GEYJ100	S.M.CARB	0.1W	5%	10 Ω
R1168	ERJ6GEYJ473	S.M.CARB	0.1W	5%	47K Ω
R1169	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1170	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω
R1171	ERJ6GEYJ224	S.M.CARB	0.1W	5%	220K Ω
R1172	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω
R1173	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω
R1174	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω
R1175	ERJ6GEYJ225	S.M.CARB	0.1W	5%	2M2 Ω
R1178	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1251	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R1252	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω
R1253	ERJ6GEYJ332	S.M.CARB	0.1W	5%	3K3 Ω
R1254	ERJ6GEYJ512	S.M.CARB	0.1W	5%	5K1 Ω
R1255	ERJ6GEYJ912	S.M.CARB	0.1W	5%	9K1 Ω
R1501	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1502	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1504	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R1505	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R1506	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R1507	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1508	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R1509	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R1510	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R1511	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R1512	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω
R1513	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω

Cct Ref	Parts Number	Description			
R1514	ERJ6GEYJ472	S.M.CARB	0.1W	5%	4K7 Ω
R1515	ERJ6GEYJ752	S.M.CARB	0.1W	5%	7K5 Ω
R1517	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1521	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R1522	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω
R1523	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω
R1524	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R1525	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R1526	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω
R1527	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2 Ω
R1528	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R1529	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2 Ω
R1530	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R1531	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R1532	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω
R1533	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2 Ω
R1534	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R1535	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω
R1536	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω
R1537	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω
R1538	ERJ6GEYJ331	S.M.CARB	0.1W	5%	330 Ω
R1539	ERJ6GEYJ271	S.M.CARB	0.1W	5%	270 Ω
R1540	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω
R1541	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1542	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1543	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1544	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1545	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1546	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω
R1547	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1548	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1549	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1550	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1551	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1552	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1553	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1554	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1555	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1556	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1557	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1558	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1559	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1560	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1561	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1562	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1563	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1564	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1565	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1566	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1567	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1568	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1569	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1570	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1571	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1572	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1573	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1574	ERJ6GEYJ682	S.M.CARB	0.1W	5%	6K8 Ω
R1575	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω
R1577	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1578	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω
R1579	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1580	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω
R1584	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1585	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1586	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω
R1587	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5 Ω

Cct Ref	Parts Number	Description				
R1588	ERJ6GEYJ511	S.M.CARB	0.1W	5%	510 Ω	
R1589	ERJ6GEYJ152	S.M.CARB	0.1W	5%	1K5 Ω	
R1912	ERC12ZGK335D	SOLID	0.5W	10%	3M3 Ω	⚠
R2101	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R2102	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R2103	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R2109	ERJ6GEYJ183	S.M.CARB	0.1W	5%	18K Ω	
R2110	ERJ6GEY0R00	S.M.CARB	0.1W	5%	0 Ω	
R2111	ERJ6GEYJ221	S.M.CARB	0.1W	5%	220 Ω	
R2112	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R2113	ERJ6GEYJ562	S.M.CARB	0.1W	5%	5K6 Ω	
R2114	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R2115	ERJ6GEYJ822	S.M.CARB	0.1W	5%	8K2 Ω	
R2116	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R2117	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R2118	ERJ6GEYJ822	S.M.CARB	0.1W	5%	8K2 Ω	
R2119	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R2120	ERJ6GEYJ222	S.M.CARB	0.1W	5%	2K2 Ω	
R2302	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R2303	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R2304	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R2305	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R2306	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R2308	ERJ6GEYJ104	S.M.CARB	0.1W	5%	100K Ω	
R2309	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R2310	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R2311	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R2312	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R3001	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3002	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R3003	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3004	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
R3005	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3006	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R3007	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3008	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
R3010	ERD25TJ750	CARBON	0.25W	5%	75 Ω	
R3013	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3014	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R3015	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3016	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
R3017	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3018	ERJ6GEYJ471	S.M.CARB	0.1W	5%	470 Ω	
R3019	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3020	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
R3021	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R3046	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3047	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3048	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R3049	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3050	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R3057	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R3201	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R3202	ERDS1TJ151	CARBON	0.5W	5%	150 Ω	
R3203	ERDS1TJ151	CARBON	0.5W	5%	150 Ω	
R3204	ERG2FJ221	METAL	2W	5%	220 Ω	⚠
R3205	ERG2FJ221	METAL	2W	5%	220 Ω	⚠
R3207	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3208	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
R3209	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3210	ERJ6GEYJ153	S.M.CARB	0.1W	5%	15K Ω	
R3211	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω	
R3212	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω	
R3213	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R3214	ERJ6GEYJ683	S.M.CARB	0.1W	5%	68K Ω	
R3215	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K Ω	

Cct Ref	Parts Number	Description				
R3216	ERJ6GEYJ750	S.M.CARB	0.1W	5%	75 Ω	
R3217	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω	
R3218	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω	
R3219	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R3220	ERJ6GEYJ683	S.M.CARB	0.1W	5%	68K Ω	
R3221	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K Ω	
R3222	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω	
R3223	ERJ6GEYJ223	S.M.CARB	0.1W	5%	22K Ω	
R3224	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R3225	ERJ6GEYJ683	S.M.CARB	0.1W	5%	68K Ω	
R3226	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K Ω	
R3227	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R3228	ERJ6GEYJ273	S.M.CARB	0.1W	5%	27K Ω	
R3229	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R3230	ERJ6GEYJ302	S.M.CARB	0.1W	5%	3K Ω	
R3231	ERJ6GEYJ122	S.M.CARB	0.1W	5%	1K2 Ω	
R3232	ERJ6GEYJ242	S.M.CARB	0.1W	5%	2K4 Ω	
R3233	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω	
R3234	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R3354	ERJ6GEYJ102	S.M.CARB	0.1W	5%	1K Ω	
R3355	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω	
R3356	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω	
R3357	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω	
R3358	ERJ6GEYJ681	S.M.CARB	0.1W	5%	680 Ω	
R3360	ERDS1TJ471	CARBON	0.5W	5%	470 Ω	
R3361	ERO50PKF1133	METAL	0.5W	5%	110K Ω	⚠
R3362	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R3363	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R3364	ERJ6GEYJ103	S.M.CARB	0.1W	5%	10K Ω	
R3601	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3602	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3603	ERJ6GEYJ101	S.M.CARB	0.1W	5%	100 Ω	
R3614	ERJ6GEYJ391	S.M.CARB	0.1W	5%	390 Ω	

CAPACITORS

C101	ECJ2VB1C104K	CERAMIC	16V	100nF
C102	ECJ2VB1C104K	CERAMIC	16V	100nF
C103	ECJ2VF1H104Z	CERAMIC	50V	100nF
C105	ECUV1H560JCX	S.M. CAP	50V	56pF
C106	ECUV1H560JCX	S.M. CAP	50V	56pF
C107	ECJ2VF1H104Z	CERAMIC	50V	100nF
C108	ECA1CM470GB	ELECT	16V	47µF
C109	ECUV1H102JCX	S.M. CAP	50V	1nF
C110	ECUV1H103ZFX	S.M. CAP	50V	10nF
C111	ECA1HMR33GB	ELECT	50V	0.33µF
C114	ECJ2VF1H104Z	CERAMIC	50V	100nF
C115	ECUV1H103ZFX	S.M. CAP	50V	10nF
C116	ECA1CM221GB	ELECT	16V	220µF
C117	ECUV1H103ZFX	S.M. CAP	50V	10nF
C118	ECJ2VF1H104Z	CERAMIC	50V	100nF
C119	ECA1CM221GB	ELECT	16V	220µF
C120	ECA1CM221GB	ELECT	16V	220µF
C121	ECUV1H103KBX	S.M. CAP	50V	10nF
C124	ECUV1H220JCX	S.M. CAP	50V	22pF
C125	ECUV1H100DCX	S.M. CAP	50V	10pF
C133	ECJ2YB1H104K	CERAMIC	50V	100nF
C134	ECJ2YB1H104K	CERAMIC	50V	100nF
C135	ECUV1H104KBW	S.M. CAP	50V	100nF
C136	ECJ2YB1H104K	CERAMIC	50V	100nF
C138	ECJ2YB1H104K	CERAMIC	50V	100nF
C251	ECA1EM100GB	ELECT	25V	0.1µF
C252	ECJ2VB1H223K	CERAMIC	50V	22nF
C253	ECA1HM4R7GB	ELECT	50V	4.7µF
C254	ECQV1H104J	FILM	50V	100nF
C255	ECA1EM101GB	ELECT	25V	100µF
C256	ECJ2VB1H223K	CERAMIC	50V	22nF
C257	ECA1HM4R7GB	ELECT	50V	4.7µF

Cct Ref	Parts Number	Description			
C258	ECA1EM100GB	ELECT	25V	0.1µF	
C259	ECQV1H104J	FILM	50V	100nF	
C260	ECA1VM102GB	ELECT	35V	1nF	
C261	ECA1VM102GB	ELECT	35V	1nF	
C262	ECQV1H274JL3	FILM	50V	270nF	
C263	ECA1HM010GB	ELECT	50V	1µF	
C264	ECA1HHG222E	ELECT	50V	2200µF	
C265	ECQV1H274JL3	FILM	50V	270nF	
C266	ECA1HM010GB	ELECT	50V	1µF	
C267	ECJ2VB1H104K	CERAMIC	50V	100nF	
C268	ECJ2VB1H104K	CERAMIC	50V	100nF	
C270	ECJ2VB1H104K	CERAMIC	50V	100nF	
C350	ECUV1H102JCX	S.M. CAP	50V	1nF	
C352	ECUV1H224ZFX	S.M. CAP	50V	220nF	
C353	ECJ2YB1H104K	CERAMIC	50V	100nF	
C354	ECQM2104KZ	FILM	250V	100nF	
C355	ECKC2H102J	CERAMIC	500V	1nF	⚠
C358	ECUV1H222JCX	S.M. CAP	50V	2.2nF	
C360	ECUV1H102JCX	S.M. CAP	50V	1nF	
C362	ECUV1H224ZFX	S.M. CAP	50V	220nF	
C363	ECJ2YB1H104K	CERAMIC	50V	100nF	
C364	ECQM2104KZ	FILM	250V	100nF	
C365	ECKC2H102J	CERAMIC	500V	1nF	⚠
C368	ECUV1H222JCX	S.M. CAP	50V	2.2nF	
C369	ECUV1H220JCX	S.M. CAP	50V	22pF	
C370	ECUV1H102JCX	S.M. CAP	50V	1nF	
C372	ECUV1H224ZFX	S.M. CAP	50V	220nF	
C373	ECJ2YB1H104K	CERAMIC	50V	100nF	
C374	ECQM2104KZ	FILM	250V	100nF	
C375	ECKC2H102J	CERAMIC	500V	1nF	⚠
C378	ECUV1H222JCX	S.M. CAP	50V	2.2nF	
C381	ECA1HM101GB	ELECT	50V	100µF	
C382	ECA1CM471GB	ELECT	16V	470µF	
C383	ECUV1H103KBX	S.M. CAP	50V	10nF	
C384	ECQM2104KZ	FILM	250V	100nF	
C385	ECA2EM220B	ELECT	250V	22µF	
C386	ECKC3D152J	CERAMIC	2KV	1.5nF	⚠
C395	ECQV1H104J	FILM	50V	100nF	
C451	ECUV1H102JX	S.M. CAP	50V	1nF	
C453	ECUV1H152KBX	S.M. CAP	50V	1.5pF	
C454	ECQV1H105JZ	FILM	50V	1µF	
C455	ECA1HM100GB	ELECT	50V	10µF	
C456	ECA1HHG221B	ELECT	50V	220µF	
C459	ECQB1224KFW	FILM	100V	220nF	
C508	ECQB1H103J	FILM	50V	10nF	
C509	ECA1VM470B	ELECT	35V	47µF	
C511	ECQM2A104KZ	FILM	100V	100nF	
C551	ECKC3D681J	CERAMIC	2KV	680pF	⚠
C552	ECWH15H102JN	FILM	1500V	1nF	
C557	ECKC2H471J	CERAMIC	500V	470pF	⚠
C558	ECA1HHG471E	ELECT	50V	470µF	
C561	ECA1EHG102B	ELECT	25V	1000µF	
C562	ECKC2H101J	CERAMIC	500V	100pF	⚠
C563	ECA2EHG220B	ELECT	250V	20µF	
C564	ECEA2AU2R2	ELECT	100V	2.2µF	
C565	ECQP1H273J	FILM	100V	2700µF	
C566	ECKC2H471J	CERAMIC	500V	470pF	⚠
C567	ECA1EHG102B	ELECT	25V	1000µF	
C568	ECKC2H471J	CERAMIC	500V	470pF	⚠
C569	ECKC2H102J	CERAMIC	500V	1nF	⚠
C572	ECUV1H104KBX	S.M. CAP	50V	100nF	
C581	ECWF4824JBB	FILM	400V	820nF	
C582	ECWF4474JBB	FILM	400V	470nF	
C583	ECWH20562JVB	FILM	200V	5.6nF	
C584	ECWH20562JVB	FILM	200V	5.6nF	
C586	ECQF4153JZH	FILM	400V	1.5nF	⚠

Cct Ref	Parts Number	Description			
C587	ECQM4223KC	FILM	400V	220nF	
C608	ECUV1H103KBX	S.M. CAP	50V	10nF	
C609	ECUV1H270JCX	S.M. CAP	50V	27pF	
C623	ECUV1H121JCX	S.M. CAP	50V	120pF	
C624	ECUV1H121JCX	S.M. CAP	50V	120pF	
C625	ECQV1H224JL3	FILM	50V	220nF	
C626	ECA1CM100GB	ELECT	16V	10µF	
C627	ECJ2VB1C104K	CERAMIC	16V	100nF	
C628	ECQV1H224JL3	FILM	50V	220nF	
C701	ECA1HHG101B	ELECT	50V	100µF	
C702	ECUV1H103KBX	S.M. CAP	50V	10nF	
C703	ECEA1HGE100	ELECT	50V	10µF	
C704	ECUV1H223KBX	S.M. CAP	50V	22nF	
C705	ECQB1H102K	FILM	50V	1nF	
C709	ECQV1H105JZ	FILM	50V	1µF	
C806	ECKWNA101MBC	CERAMIC	400V	100µF	⚠
C807	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C808	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C809	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C810	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C811	ECOS2GA221CA	ELECT	400V	220µF	
C814	ECKC3D102J	CERAMIC	2KV	1nF	⚠
C815	ECKC1H471J	CERAMIC	50V	470pF	
C816	ECA1EM101GB	ELECT	25V	100µF	
C817	ECQE6104K	FILM	600V	100nF	⚠
C818	ECKCNS332J	CERAMIC	1.2KV	3.3nF	⚠
C819	ECQB1H102K	FILM	50V	1nF	
C820	ECJ2VF1H104Z	CERAMIC	50V	100nF	
C839	ECA1CM100GB	ELECT	16V	10µF	
C840	ECJ2YB1H104K	CERAMIC	50V	100nF	
C841	ECA1AM222B	ELECT	10V	2200µF	
C842	ECA1CM100GB	ELECT	16V	10µF	
C845	ECQE6104K	FILM	600V	100nF	⚠
C846	222233510154	FILM	250V	100µF	
C850	ECKC3D471JB	CERAMIC	2KV	470pF	⚠
C851	ECA2CHG221E	ELECT	160V	220µF	
C852	EEUEB2D101B	CERAMIC	250V	100pF	
C853	ECKC2H471J	CERAMIC	500V	470pF	⚠
C854	ECA1EM102GB	ELECT	25V	100µF	
C855	ECKC2H471J	CERAMIC	500V	470pF	⚠
C856	ECA1AHG332B	ELECT	10V	3.3nF	
C857	ECKC2H471J	CERAMIC	500V	470pF	⚠
C858	ECEA1HGE102	ELECT	50V	1000µF	
C859	ECJ2VF1H104Z	CERAMIC	50V	100nF	
C860	ECA1HM101GB	ELECT	50V	100µF	
C862	ECJ2VF1H104Z	CERAMIC	50V	100nF	
C863	ECA1HM101GB	ELECT	50V	100µF	
C864	ECJ2VF1H104Z	CERAMIC	50V	100nF	
C865	ECA1CM100GB	ELECT	16V	10µF	
C866	ECJ2VF1H104Z	CERAMIC	50V	100nF	
C867	ECA1CM100GB	ELECT	16V	10µF	
C868	ECA1CM100GB	ELECT	16V	10µF	
C869	ECA1EM101GB	ELECT	25V	100µF	
C870	ECA1EM471GB	ELECT	25V	470µF	
C871	ECEA1CU332	ELECT	16V	3300µF	
C872	ECA1CM471GB	ELECT	16V	470µF	
C873	ECA1CM100GB	ELECT	16V	10µF	
C875	ECA2CM4R7B	ELECT	160V	10µF	
C876	ECA1HHG101B	ELECT	50V	100µF	
C902	ECA1VM101GB	ELECT	35V	100µF	
C904	ECJ2VF1H103Z	CERAMIC	50V	10nF	
C906	ECUV1H563KBX	S.M. CAP	50V	56nF	
C907	ECUV1H331JCX	S.M. CAP	50V	330pF	
C909	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C910	ECKC2H472J	CERAMIC	500V	4.7nF	⚠
C912	ECA2EM220B	ELECT	250V	22µF	

Cct Ref	Parts Number	Description			
C913	ECA1HM101GB	ELECT	50V	100µF	
C914	ECA1HM101GB	ELECT	50V	100µF	
C916	ECA2EM220B	ELECT	250V	22µF	
C917	ECA1HM100GB	ELECT	50V	10µF	
C918	ECJ2VF1H103Z	CERAMIC	50V	10nF	
C919	ECCR2H270J	CERAMIC	500V	27pF	
C1061	ECUV1H103KBX	S.M. CAP	50V	10nF	
C1062	ECA1HM101GB	ELECT	50V	100µF	
C1063	ECUV1H331JCX	S.M. CAP	50V	330pF	
C1101	ECJ2VF1H104Z	CERAMIC	50V	100nF	
C1102	ECA0JM101G	ELECT	6.3V	100µF	
C1103	ECUV1H220JCX	S.M. CAP	50V	22pF	
C1104	ECUV1H220JCX	S.M. CAP	50V	22pF	
C1105	ECUV1H101JCX	S.M. CAP	50V	100pF	
C1106	ECKC2H681J	CERAMIC	500V	680pF	⚠
C1108	ECJ2VB1H333K	CERAMIC	50V	33nF	
C1111	ECA1CM100GB	ELECT	16V	10µF	
C1112	ECUV1H103KBX	S.M. CAP	50V	10nF	
C1115	ECJ3VB1C474K	CERAMIC	16V	470nF	
C1116	ECUV1H472KBX	S.M. CAP	50V	4.7nF	
C1117	ECJ2VF1H104Z	CERAMIC	50V	100nF	
C1118	ECUV1H103KBX	S.M. CAP	50V	10nF	
C1119	ECUV1H221JCX	S.M. CAP	50V	220pF	
C1120	ECJ2VF1H104Z	CERAMIC	50V	100nF	
C1121	ECUV1H221JCX	S.M. CAP	50V	220pF	
C1123	ECUV1H471JCX	S.M. CAP	50V	470pF	
C1124	ECUV1H221JCX	S.M. CAP	50V	220pF	
C1125	ECUV1H221JCX	S.M. CAP	50V	220pF	
C1126	ECUV1H221JCX	S.M. CAP	50V	220pF	
C1127	ECUV1H561JCX	S.M. CAP	50V	560pF	
C1129	ECUV1H270JCX	S.M. CAP	50V	27pF	
C1130	ECA1CM221GB	ELECT	16V	220µF	
C1501	ECUV1H271JCX	S.M. CAP	50V	270pF	
C1502	ECUV1H271JCX	S.M. CAP	50V	270pF	
C1503	ECUV1H271JCX	S.M. CAP	50V	270pF	
C1504	ECUV1H271JCX	S.M. CAP	50V	270pF	
C1505	ECUV1H271JCX	S.M. CAP	50V	270pF	
C1506	ECUV1H271JCX	S.M. CAP	50V	270pF	
C1507	ECUV1H271JCX	S.M. CAP	50V	270pF	
C1508	ECUV1H271JCX	S.M. CAP	50V	270pF	
C1509	ECQV1H684J	FILM	50V	680nF	
C1510	ECQV1H684J	FILM	50V	680nF	
C1511	ECQV1H684J	FILM	50V	680nF	
C1512	ECQV1H684J	FILM	50V	680nF	
C1513	ECUV1H102JCX	S.M. CAP	50V	1nF	
C1514	ECEA1CKA100	ELECT	16V	10µF	
C1515	ECJ2VB1H103K	CERAMIC	50V	10nF	
C1516	ECEA1CN101	ELECT	16V	100µF	
C1517	ECJ2YB1H473K	CERAMIC	50V	47nF	
C1518	ECEA1CKA100	ELECT	16V	10µF	
C1519	ECUV1H050CCX	S.M. CAP	50V	50pF	
C1520	ECUV1H050CCX	S.M. CAP	50V	50pF	
C1521	ECJ2VB1H103K	CERAMIC	50V	10nF	
C1522	ECEA1CKA100	ELECT	16V	10µF	
C1523	ECJ2VB1H103K	CERAMIC	50V	10nF	
C1524	ECEA1CKA100	ELECT	16V	10µF	
C1525	ECJ2VB1H103K	CERAMIC	50V	10nF	
C1526	ECEA1CKA100	ELECT	16V	10µF	
C1527	ECJ2VB1C104K	CERAMIC	16V	100nF	
C1528	ECEA1CKA100	ELECT	16V	10µF	
C1529	ECJ2VB1C104K	CERAMIC	16V	100nF	
C1530	ECEA1CKA100	ELECT	16V	10µF	
C1531	ECJ2VB1C104K	CERAMIC	16V	100nF	
C1532	ECEA1CKA100	ELECT	16V	10µF	
C1540	ECUV1H222JCX	S.M. CAP	50V	2.2nF	
C1541	ECJ2VB1H333K	CERAMIC	50V	33nF	

Cct Ref	Parts Number	Description			
C1542	ECJ2VB1H333K	CERAMIC	50V	33nF	
C1543	ECJ2VB1C224K	CERAMIC	16V	220nF	
C1544	ECJ2VB1H333K	CERAMIC	50V	33nF	
C1545	ECEA1CKA100	ELECT	16V	10µF	
C1546	ECEA1CKA100	ELECT	16V	10µF	
C1547	ECJ2VB1H103K	CERAMIC	50V	10nF	
C1548	ECJ2VB1H103K	CERAMIC	50V	10nF	
C1549	ECJ2VB1H103K	CERAMIC	50V	10nF	
C1550	ECJ2VB1H103K	CERAMIC	50V	10nF	
C1551	ECUV1H103KBX	S.M. CAP	50V	10nF	
C1552	ECUV1H103KBX	S.M. CAP	50V	10nF	
C1553	ECEA1CKA100	ELECT	16V	10µF	
C1554	ECJ2VB1H103K	CERAMIC	50V	10nF	
C1555	ECJ2VB1C104K	CERAMIC	16V	100nF	
C1556	ECUV1H270JCX	S.M. CAP	50V	27pF	
C1557	ECUV1H270JCX	S.M. CAP	50V	27pF	
C1558	ECJ2VB1H103K	CERAMIC	50V	10nF	
C1559	ECEA1CKA100	ELECT	16V	10µF	
C1560	ECEA1CKA100	ELECT	16V	10µF	
C1561	ECJ2VB1C104K	CERAMIC	16V	100nF	
C1562	ECJ2VB1C104K	CERAMIC	16V	100nF	
C1563	ECJ2VB1C104K	CERAMIC	16V	100nF	
C1564	ECJ2VB1C104K	CERAMIC	16V	100nF	
C1566	ECUV1H270JCX	S.M. CAP	50V	27pF	
C1567	ECEA1CKA100	ELECT	16V	10µF	
C1568	ECJ2VB1H103K	CERAMIC	50V	10nF	
C1569	ECEA1CKA100	ELECT	16V	10µF	
C1570	ECJ2VB1H103K	CERAMIC	50V	10nF	
C1571	ECJ2VB1H103K	CERAMIC	50V	10nF	
C1572	ECEA1CKA100	ELECT	16V	10µF	
C1573	ECJ2VB1H103K	CERAMIC	50V	10nF	
C1574	ECEA1CKA100	ELECT	16V	10µF	
C1575	ECEA1CKA100	ELECT	16V	10µF	
C1576	ECJ2VB1H103K	CERAMIC	50V	10nF	
C1577	ECUV1H270JCX	S.M. CAP	50V	27pF	
C1578	ECJ2VB1H103K	CERAMIC	50V	10nF	
C1579	ECJ2VB1H103K	CERAMIC	50V	10nF	
C1580	ECJ2VB1H103K	CERAMIC	50V	10nF	
C1581	ECJ2VB1C224K	CERAMIC	16V	220nF	
C1582	ECJ2VB1C224K	CERAMIC	16V	220nF	
C1583	ECJ2VB1C224K	CERAMIC	16V	220nF	
C1584	ECJ2VB1C104K	CERAMIC	16V	100nF	
C1585	ECEA1CKA100	ELECT	16V	10µF	
C1586	ECJ2VB1H103K	CERAMIC	50V	10nF	
C1587	ECEA1CKA100	ELECT	16V	10µF	
C1588	ECEA1CKA100	ELECT	16V	10µF	
C1589	ECJ2VB1H103K	CERAMIC	50V	10nF	
C1590	ECJ2VB1H103K	CERAMIC	50V	10nF	
C1591	ECEA1CKA100	ELECT	16V	10µF	
C1592	ECUV1H271JCX	S.M. CAP	50V	270pF	
C1594	ECUV1H271JCX	S.M. CAP	50V	270pF	
C1596	ECUV1H271JCX	S.M. CAP	50V	270pF	
C1603	ECUV1H271JCX	S.M. CAP	50V	270pF	
C1906	ECQE2A474MWB	FILM	250V	470nF	⚠
C1907	222233510224	FILM	250V	220nF	⚠
C2101	ECUV1H102JCX	S.M. CAP	50V	1nF	
C2102	ECUV1H102JCX	S.M. CAP	50V	1nF	
C2103	ECUV1H102JCX	S.M. CAP	50V	1nF	
C2104	ECUV1H102JCX	S.M. CAP	50V	1nF	
C2105	ECUV1H102JCX	S.M. CAP	50V	1nF	
C2106	ECUV1H102JCX	S.M. CAP	50V	1nF	
C2107	ECUV1H102JCX	S.M. CAP	50V	1nF	
C2108	ECUV1H102JCX	S.M. CAP	50V	1nF	
C2109	ECUV1H102JCX	S.M. CAP	50V	1nF	
C2110	ECUV1H102JCX	S.M. CAP	50V	1nF	
C2111	ECA1CM100GB	ELECT	16V	10µF	

Cct Ref	Parts Number	Description		
C2112	ECA1CM100GB	ELECT	16V	10µF
C2113	ECA1HM3R3GB	ELECT	50V	3.3µF
C2114	ECJ2VF1H104Z	CERAMIC	50V	100nF
C2115	ECUV1H221JCX	S.M. CAP	50V	220pF
C2116	ECUV1H221JCX	S.M. CAP	50V	220pF
C2117	ECUV1H221JCX	S.M. CAP	50V	220pF
C2118	ECUV1H221JCX	S.M. CAP	50V	220pF
C2119	ECUV1H221JCX	S.M. CAP	50V	220pF
C2120	ECUV1H221JCX	S.M. CAP	50V	220pF
C2121	ECA1CM100GB	ELECT	16V	10µF
C2122	ECJ2VF1H104Z	CERAMIC	50V	100nF
C2123	ECUV1H221JCX	S.M. CAP	50V	220pF
C2124	ECUV1H560JCX	S.M. CAP	50V	56pF
C2125	ECUV1H470JCX	S.M. CAP	50V	47pF
C2126	ECUV1H560JCX	S.M. CAP	50V	56pF
C2127	ECUV1H010CCX	S.M. CAP	50V	1pF
C2128	ECUV1H010CCX	S.M. CAP	50V	1pF
C2129	ECA1CM102B	ELECT	16V	1000µF
C2130	ECA1CM331B	ELECT	16V	330µF
C2134	ECUV1H103ZFX	S.M. CAP	50V	10nF
C2135	ECA1HM101GB	ELECT	50V	100µF
C2136	ECJ2VF1H104Z	CERAMIC	50V	100nF
C2137	ECA1CM100GB	ELECT	16V	10µF
C2138	ECUV1H471KBX	S.M. CAP	50V	470pF
C2139	ECUV1H221JCX	S.M. CAP	50V	220pF
C2140	ECA1HM101GB	ELECT	50V	100µF
C2141	ECUV1H152JCX	S.M. CAP	50V	1.5pF
C2301	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C2302	ECA1CM470GB	ELECT	16V	47µF
C2303	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C2304	ECA1CM470GB	ELECT	16V	47µF
C3001	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3002	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3003	ECA1CM470GB	ELECT	16V	47µF
C3005	ECUV1H561JCX	S.M. CAP	50V	560pF
C3006	ECJ3VB1C474K	CERAMIC	16V	470nF
C3007	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3008	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3009	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3010	ECA1CM470GB	ELECT	16V	47µF
C3012	ECUV1H561JCX	S.M. CAP	50V	560pF
C3013	ECJ3VB1C474K	CERAMIC	16V	470nF
C3014	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3015	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3016	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3017	ECA1CM470GB	ELECT	16V	47µF
C3019	ECUV1H561JCX	S.M. CAP	50V	560pF
C3020	ECJ3VB1C474K	CERAMIC	16V	470nF
C3021	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3022	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3023	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3024	ECA1CM470GB	ELECT	16V	47µF
C3026	ECUV1H561JCX	S.M. CAP	50V	560pF
C3027	ECJ3VB1C474K	CERAMIC	16V	470nF
C3028	ECUV1H222JCX	S.M. CAP	50V	2.2nF
C3030	ECUV1H271JCX	S.M. CAP	50V	270pF
C3031	ECUV1H271JCX	S.M. CAP	50V	270pF
C3032	ECUV1H271JCX	S.M. CAP	50V	270pF
C3111	ECUV1H222KBX	S.M. CAP	50V	2.2nF
C3201	ECUV1H103KBX	S.M. CAP	50V	10nF
C3202	ECUV1H103KBX	S.M. CAP	50V	10nF
C3203	ECUV1H561JCX	S.M. CAP	50V	560pF
C3204	ECUV1H561JCX	S.M. CAP	50V	560pF
C3205	ECA1HM470GB	ELECT	50V	47µF
C3206	ECUV1H561JCX	S.M. CAP	50V	560pF
C3207	ECUV1H561JCX	S.M. CAP	50V	560pF

Cct Ref	Parts Number	Description		
C3208	ECA1HM470GB	ELECT	50V	47µF
C3209	ECUV1H103KBX	S.M. CAP	50V	10nF
C3210	ECJ2VB1C104K	CERAMIC	16V	100nF
C3211	ECUV1H103KBX	S.M. CAP	50V	10nF
C3212	ECUV1H103KBX	S.M. CAP	50V	10nF
C3213	ECUV1H103KBX	S.M. CAP	50V	10nF
C3214	ECJ2VB1C104K	CERAMIC	16V	100nF
C3215	ECUV1H103KBX	S.M. CAP	50V	10nF
C3216	ECA1CM330GB	ELECT	16V	33pF
C3217	ECJ2VB1C104K	CERAMIC	16V	100nF
C3221	ECA1CM221GB	ELECT	16V	220µF
C3351	ECA1CM221GB	ELECT	16V	220µF
TERMINALS AND LINKS				
JK381	TJS1A5230B	CRT SOCKET		
JK2301	JPJ841101320	RCA SOCKET		
JK3001	0350808500	SCART SOCKET		
JK3201	TJB8E029	AV TERMINAL		
SWITCHES				
S802	ESB92S11B	SWITCH		⚠
S1251	EVQ21405R	SWITCH		
S1252	EVQ21405R	SWITCH		
S1253	EVQ21405R	SWITCH		
S1254	EVQ21405R	SWITCH		
S1255	EVQ21405R	SWITCH		
RELAYS				
RL801	TSE1885-1	RELAY		⚠

DIFFERENCES FOR MODEL TX--25AS10DM

EXPLODED VIEW			
22	TNP8EE013CF	E P.C.B.	⚠
23	TQF8E3178	MODEL LABEL	⚠
24	TNP8EY018AL	Y P.C.B.	⚠
INSTRUCTION BOOKS			
.	TQB8E3283A	GERMAN	⚠
.	TQB8E3283C	ITALIAN	⚠
.	TQB8E3283D	FRENCH	⚠
I.C.s			
IC1103	X24LM3-2BD	EAROM*	⚠

DIFFERENCES FOR MODEL TX--25AS10FM

EXPLODED VIEW			
22	TNP8EE013CE	E P.C.B.	⚠
23	TQF8E3172	MODEL LABEL	⚠
24	TNP8EY018AK	Y P.C.B.	⚠
INSTRUCTION BOOKS			
.	TQB8E3273AE	GERMAN/SPANISH	⚠
.	TQB8E3273BD	DUTCH/FRENCH	⚠
.	TQB8E3273FG	SWEDISH/NORG.	⚠
.	TQB8E3273H	SUOMI	⚠
I.C.s			
IC1103	X24LM3-2BF	EAROM*	

SCHEMATIC DIAGRAMS FOR MODELS

TX-25AS10D/M
TX-25AS10F/M

(EURO-4H CHASSIS)

IMPORTANT SAFETY NOTICE

Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturers' specified parts.

NOTE

1. RESISTOR
   All resistors are carbon ¼W resistor, unless marked otherwise.
   Unit of resistance is OHM (Ω) (k=1,000, M=1,000,000)
2. CAPACITORS
   All capacitors are ceramic 50V unless marked otherwise.
   Unit of capacitance is μF unless otherwise stated.
3. COIL
   Unit of inductance is μH, unless otherwise stated.
4. TEST POINT
   Test Point Position
5. EARTH SYMBOL
   Chassis Earth (Cold)
   Line Earth (Hot)
6. VOLTAGE MEASUREMENT
   Voltage is measured by a d.c. voltmeter.
   Measurement conditions are as follows:

Power source	a.c. 220V-240V, 50Hz
Receiving Signal	Colour Bar signal (RF)
All customer controls	Maximum position

7.
   Indicates the Video signal path
   Indicates the Audio signal path

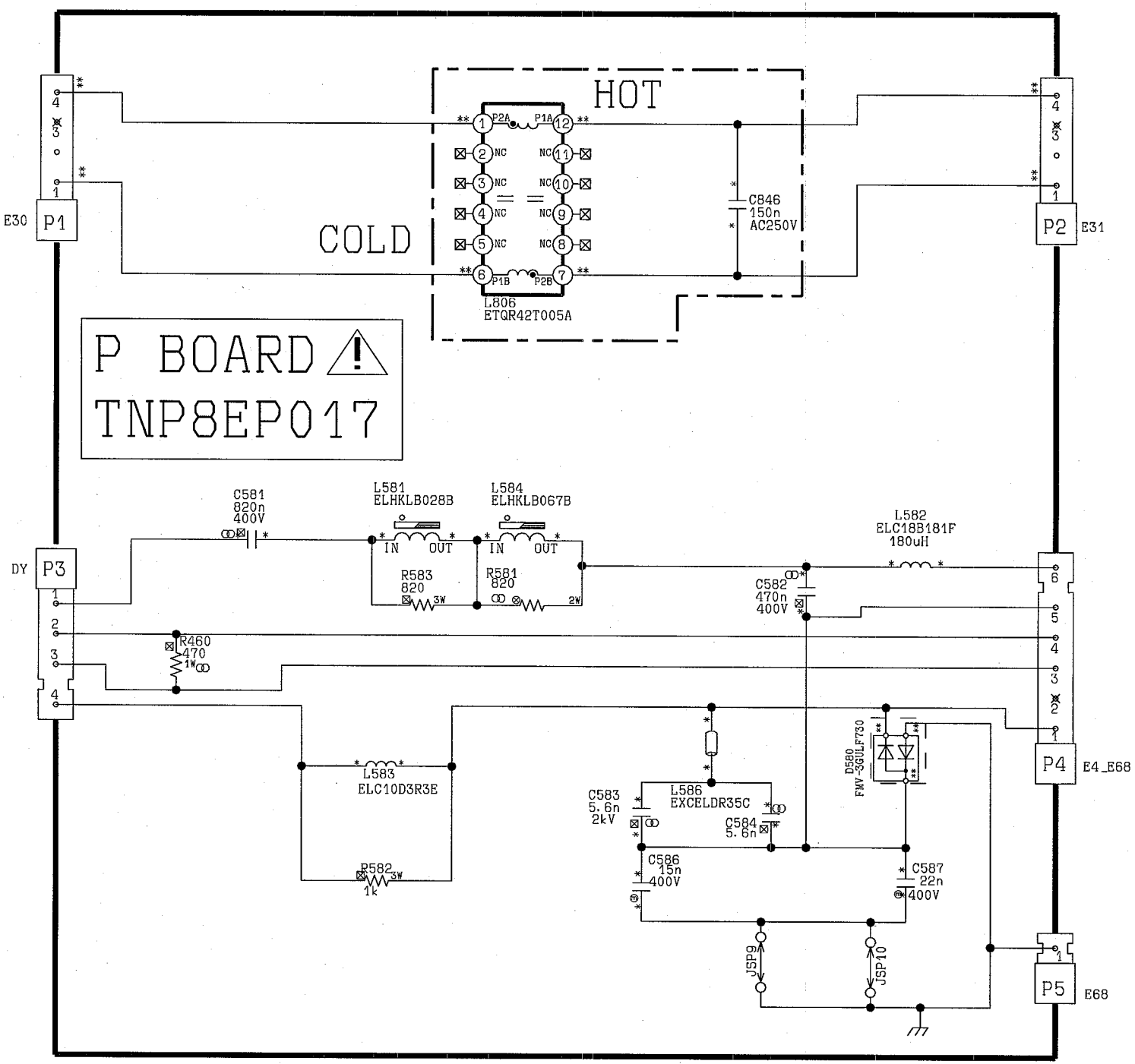
These schematic diagrams are the latest at time of printing and are subject to change without notice.

REMARKS

a. Do not touch the hot part, or the hot and cold parts at the same time, as you are liable to a shock hazard.
b. Do not short circuit the hot and cold circuits as electrical components may be damaged.
c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously as this may cause fuse failure. Connect the earth of the instruments to the earth connection of the circuit being measured.
d. Make sure to disconnect the power plug before removing the chassis.

NOTE

1. The Power Supply Circuit contains a circuit area, which uses a separate power supply to isolate the earth connection. *The circuit is defined by HOT and COLD indications in the schematic diagram. All circuits, except the Power Circuit, are* COLD.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P1
P2
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C581
820n
400V
L581
ELHKLB028B
L584
ELHKLB067B
IN
OUT
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820
3W
R581
820
2W
L582
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2kV
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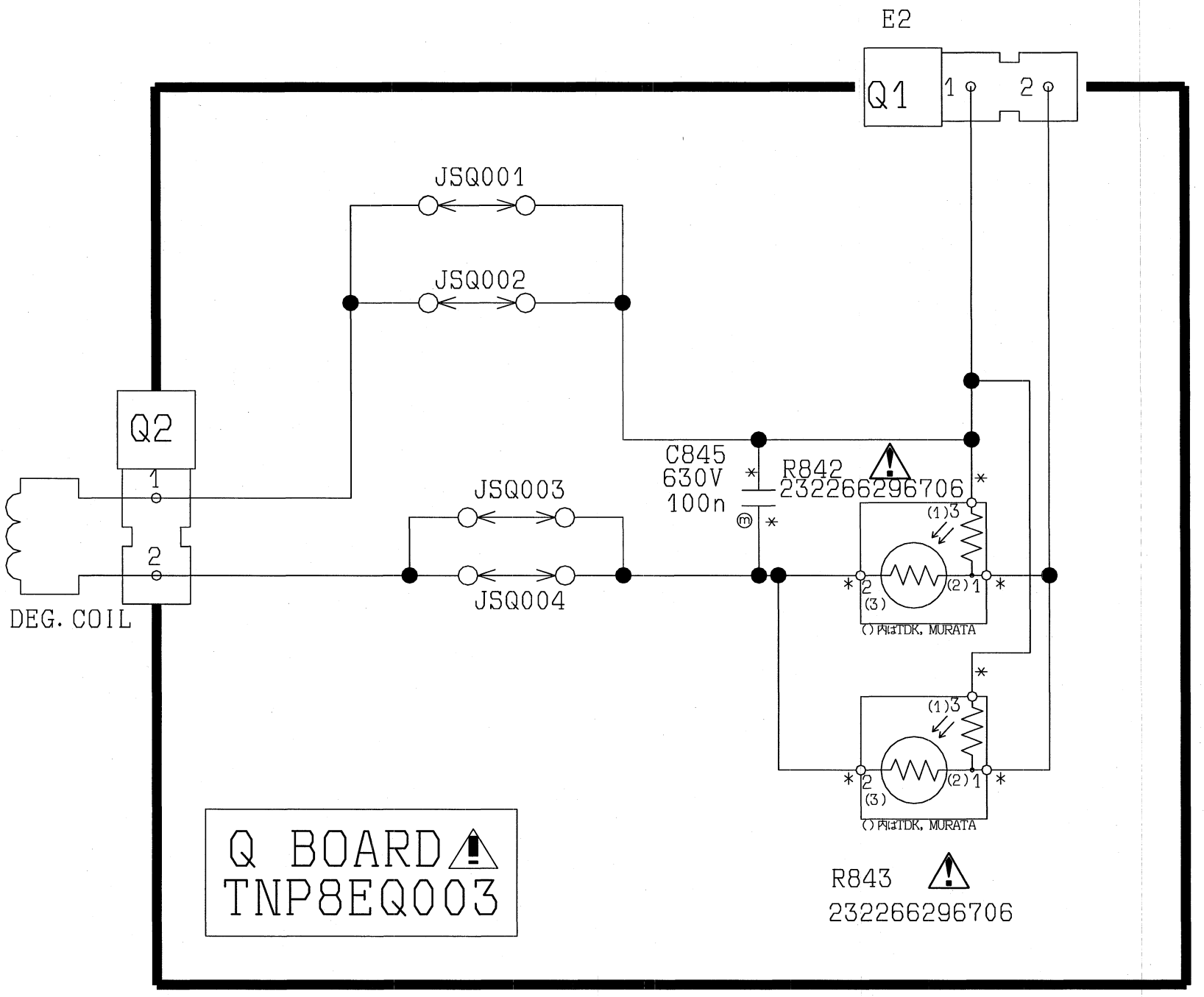
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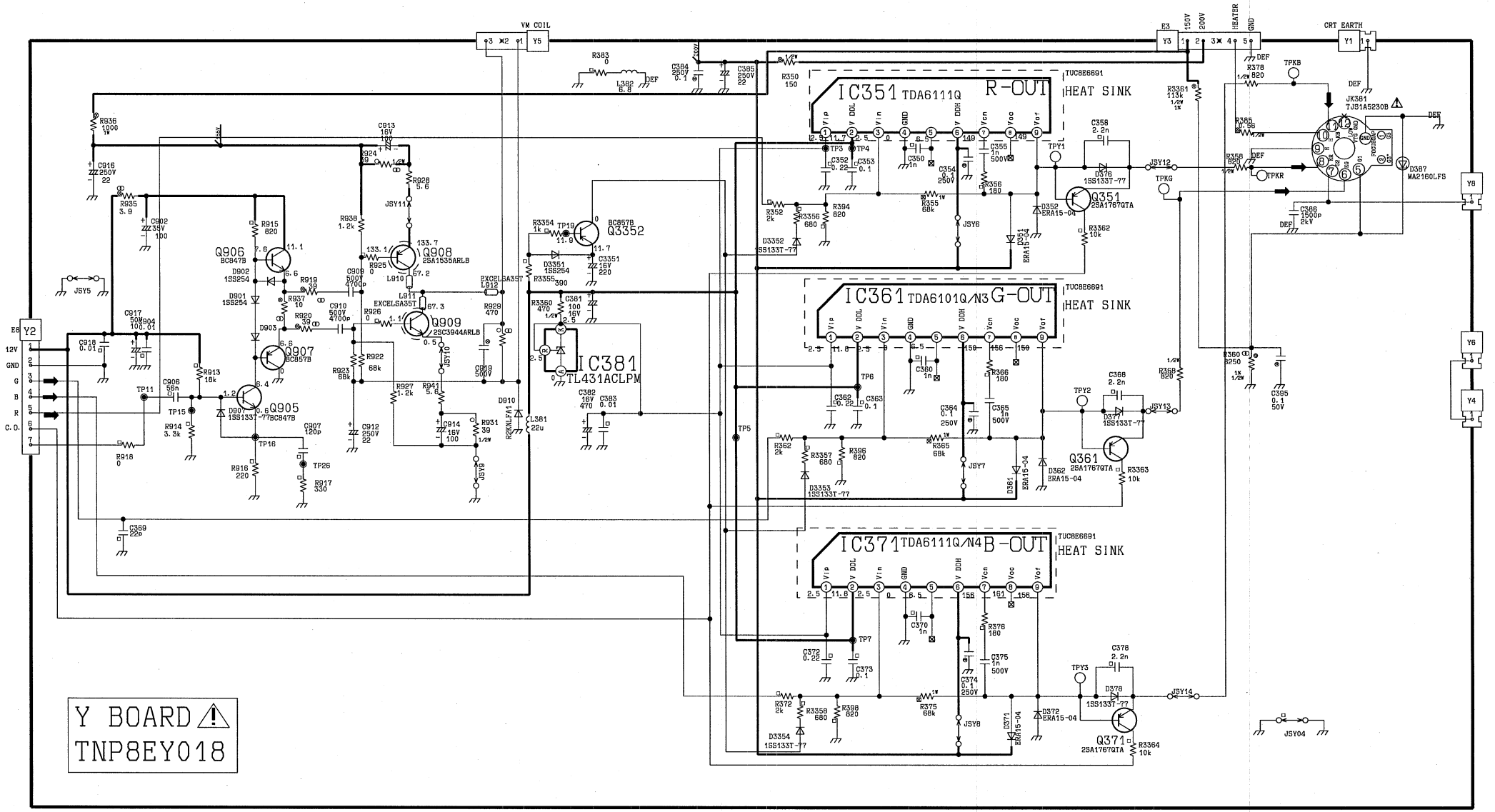
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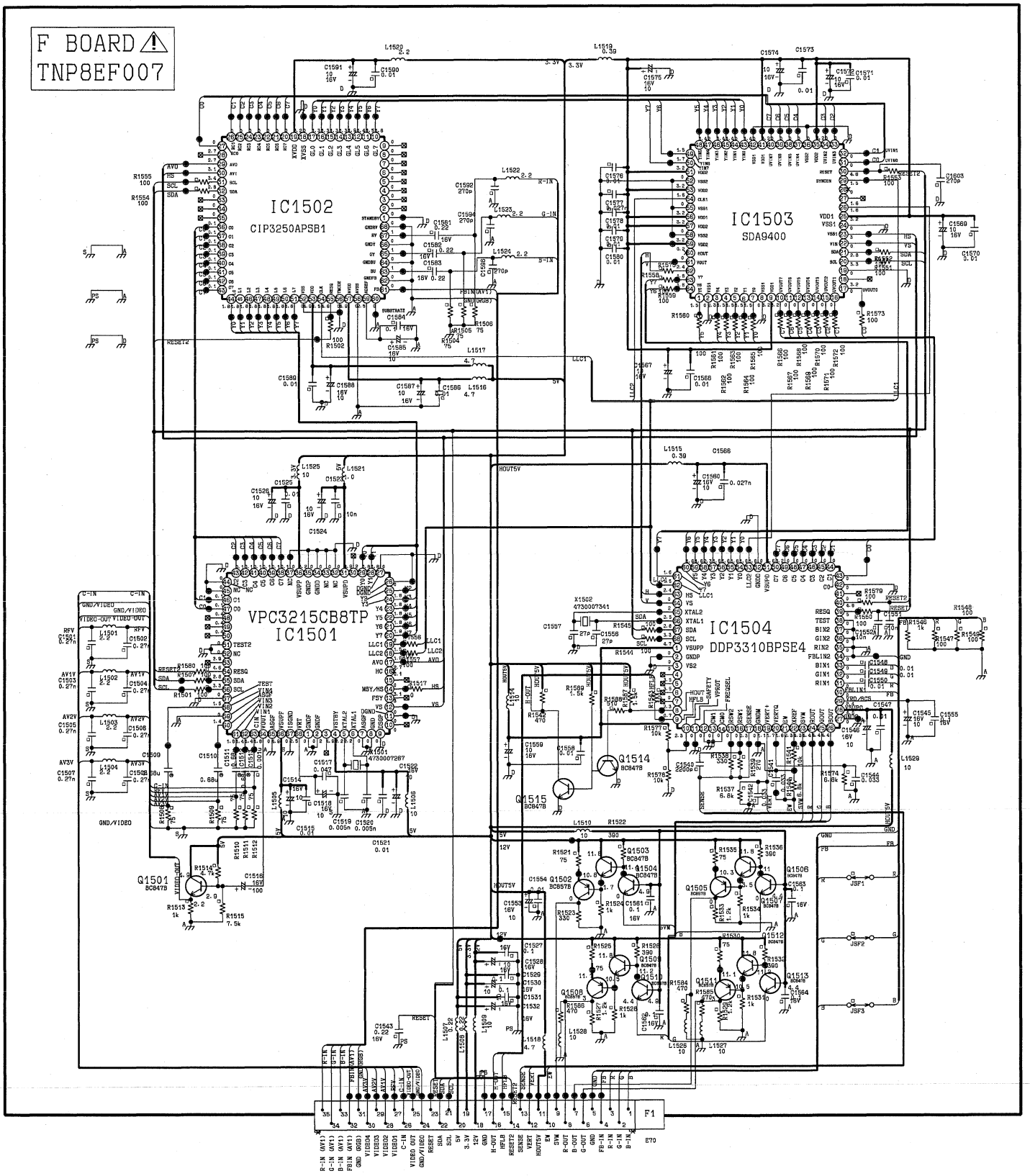
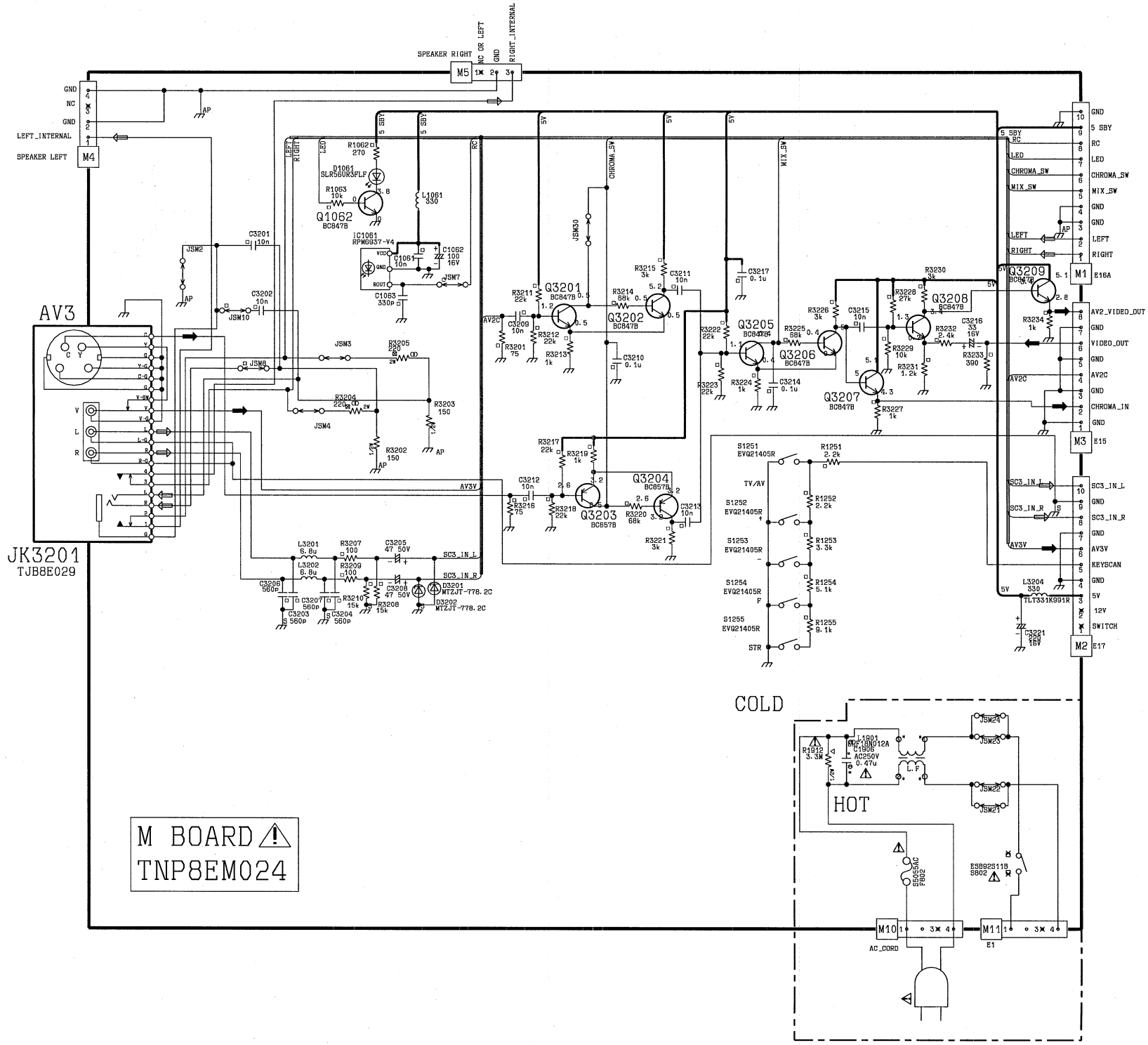
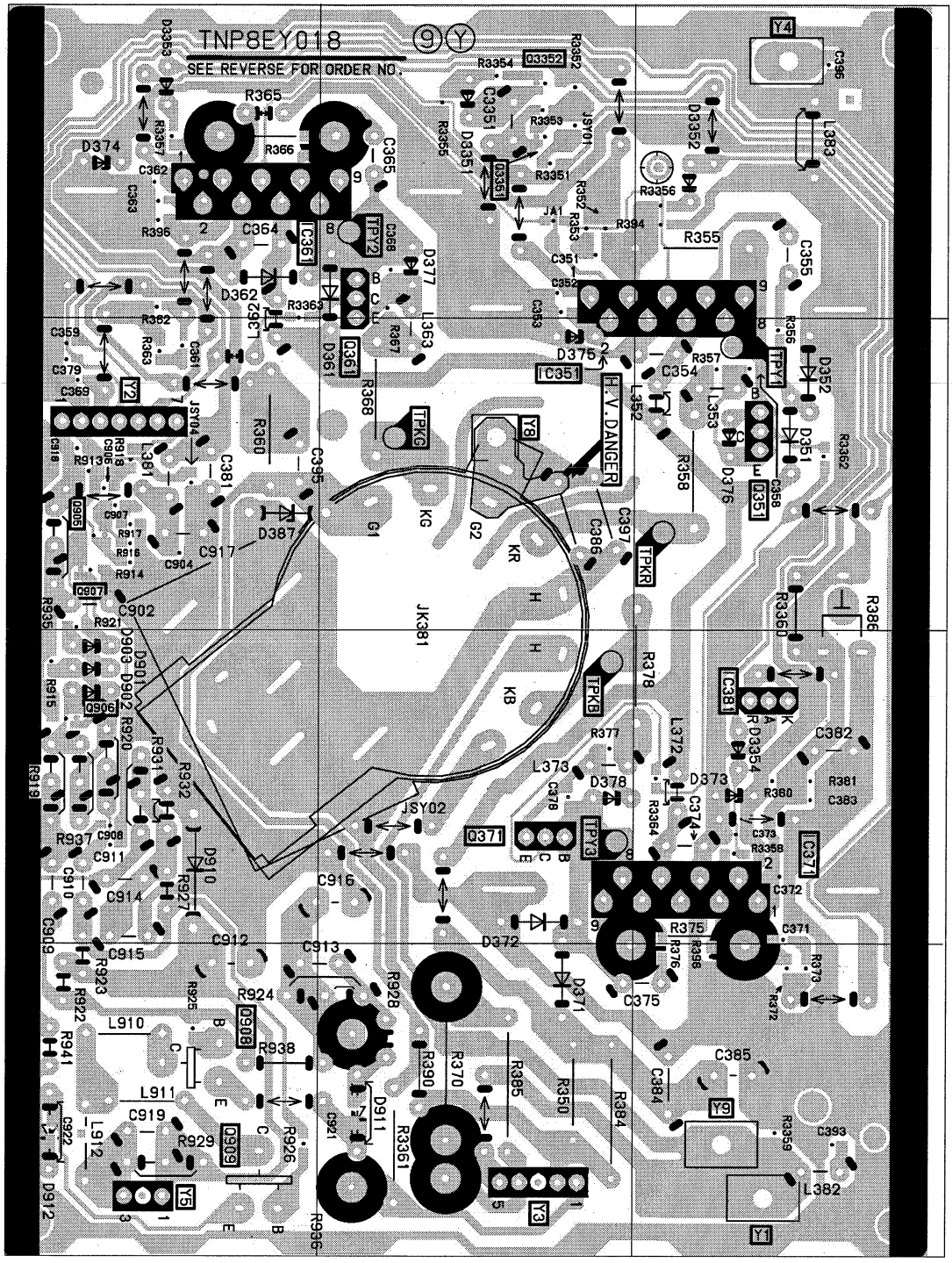
IC361 TDA6101Q/N3 G-OUT
IC371 TDA6111Q/N4 B-OUT
IC381 TL431ACLPM
HEAT SINK
TUC8E6691
Q905
Q906
Q907
Q908
Q909
Q351
Q361
Q371
Q3352
D387 MA2160LFS
JK381 7JS1A5230B
CRT EARTH
VM COIL
HEATER


F BOARD
TNP8EF007
IC1502
CIP3250APSB1
IC1503
SDA9400
VPC3215CB8TP
IC1501
IC1504
DDP3310BPSE4
Q1501
Q1502
Q1503
Q1504
Q1505
Q1506
Q1507
Q1508
Q1509
Q1510
Q1511
Q1512
Q1513
Q1514
Q1515
F1
E70


SPEAKER RIGHT
M5
NC OR LEFT
GND
RIGHT_INTERNAL
GND
NC
GND
LEFT_INTERNAL
SPEAKER LEFT
M4
AV3
JK3201
TJB8E029
M BOARD ⚠
TNP8EM024
COLD
HOT
AC_CORD
M10
M11
E1
M1
E16A
M3
E15
M2
E17
Q1062
BC847B
Q3201
Q3202
Q3203
Q3204
Q3205
Q3206
Q3207
Q3208
Q3209
D1061
SLR560R3FLF
IC1061
RPM6937-Y4
D3201
MTZJT-778.2C
D3202
MTZJT-778.2C
S1251
EVQ21405R
TV/AV
S1252
S1253
S1254
S1255
STR
AV2_VIDEO_OUT
VIDEO_OUT
AV2C
CHROMA_IN
SC3_IN_L
SC3_IN_R
AV3V
KEYSCAN
5V
12V
SWITCH

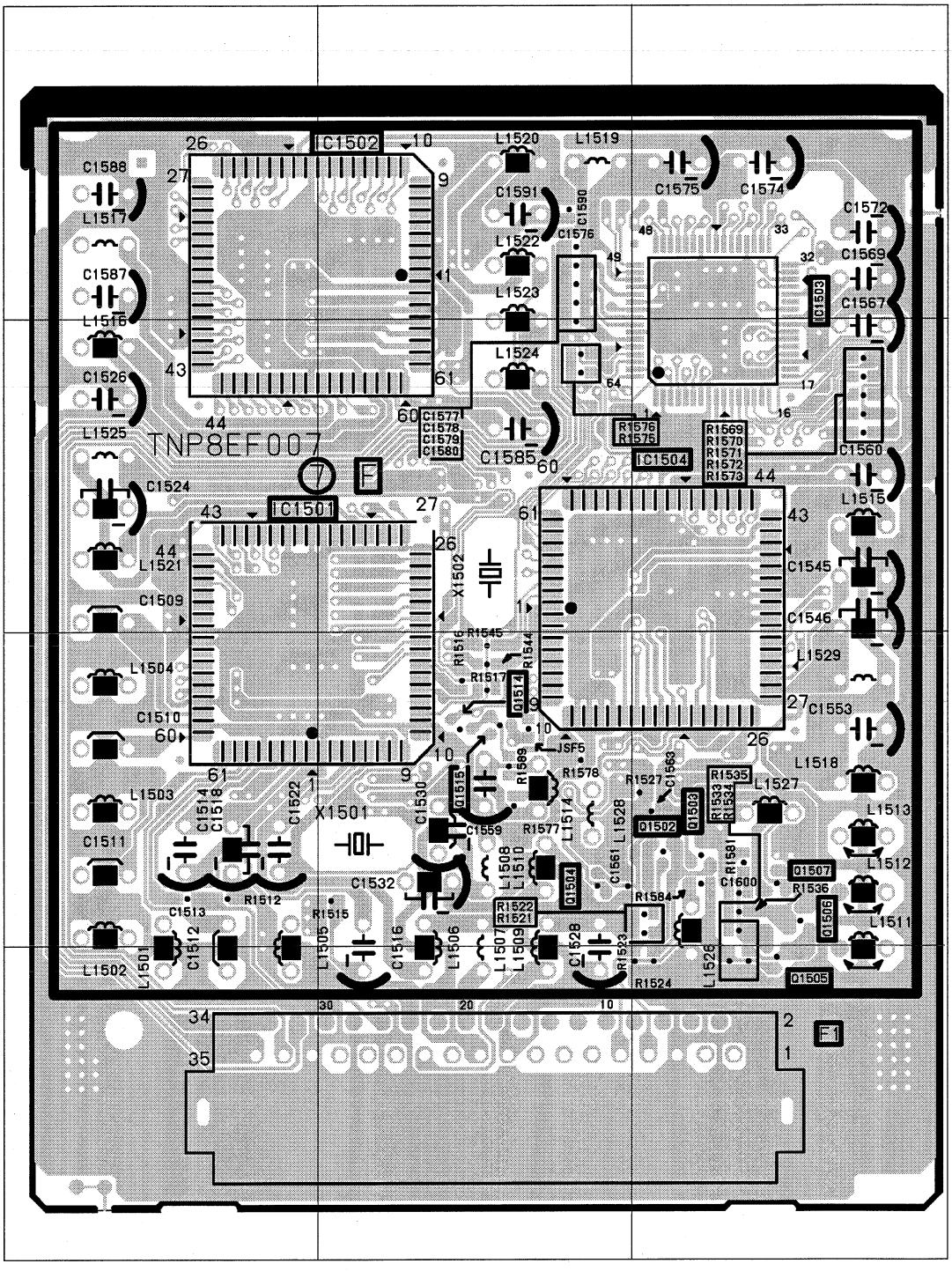
Y - BOARD TNP8EY018

TRAN'S	
Q351	B3
Q361	B2
Q371	C2
Q905	B1
Q906	C1
Q907	B1
Q908	D1
Q909	D1
Q3351	A2
Q3352	A2
DIODES	
D351	B3
D352	B3
D361	B2
D362	A1
D371	D2
D372	C2
D373	C3
D374	A1
D375	B2
D376	B3
D377	A2
D378	C2
D387	B1
D901	C1
D902	C1
D903	C1
D910	C1
D911	D2
D912	D1
D3351	A2
D3352	A3
D3353	A1
D3354	C3
T.P.'S	
TPY1	B3
TPY2	A2
TPY3	C2
TPKR	B3
TPKG	B2
TPKB	C2
I.C.'S	
IC351	B2
IC361	A1
IC371	C3
IC381	C3



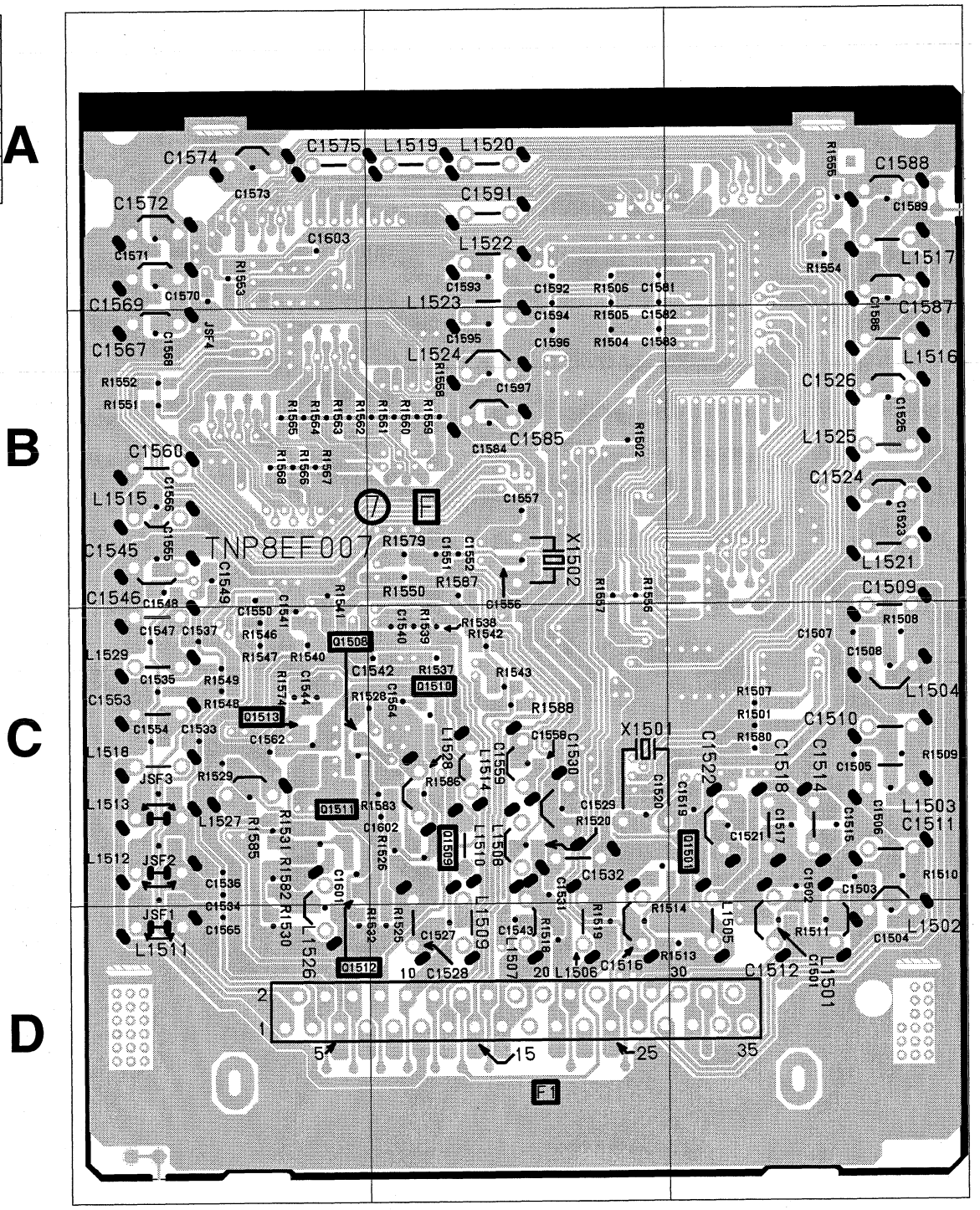
F - BOARD TNP8EF007

TRAN'S	
Q1502	C3
Q1503	C3
Q1504	C2
Q1505	D3
Q1506	C3
Q1507	C3
Q1514	C2
Q1515	C2
I.C.'S	
IC1501	B1
IC1502	A2
IC1503	A3
IC1504	B3



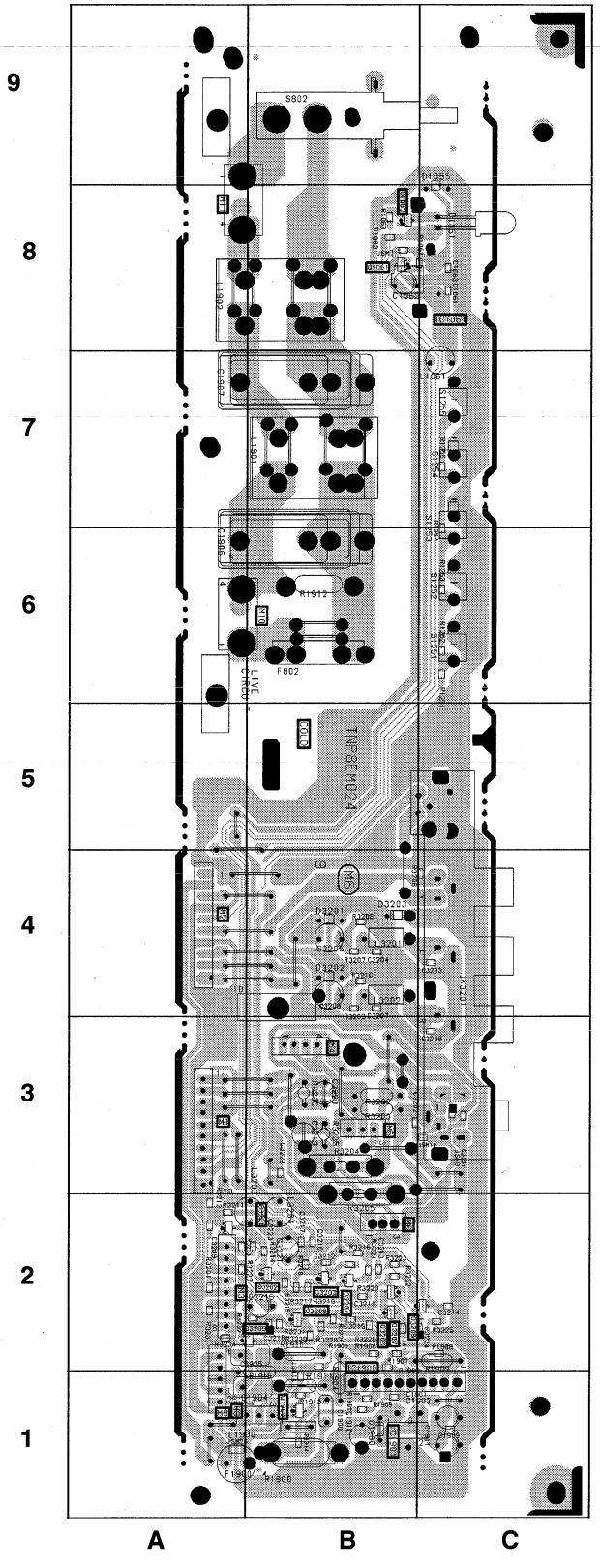
F - BOARD TNP8EF007

TRAN'S	
Q1501	C3
Q1508	C1
Q1509	C2
Q1510	C2
Q1511	C1
Q1512	D1
Q1513	C1



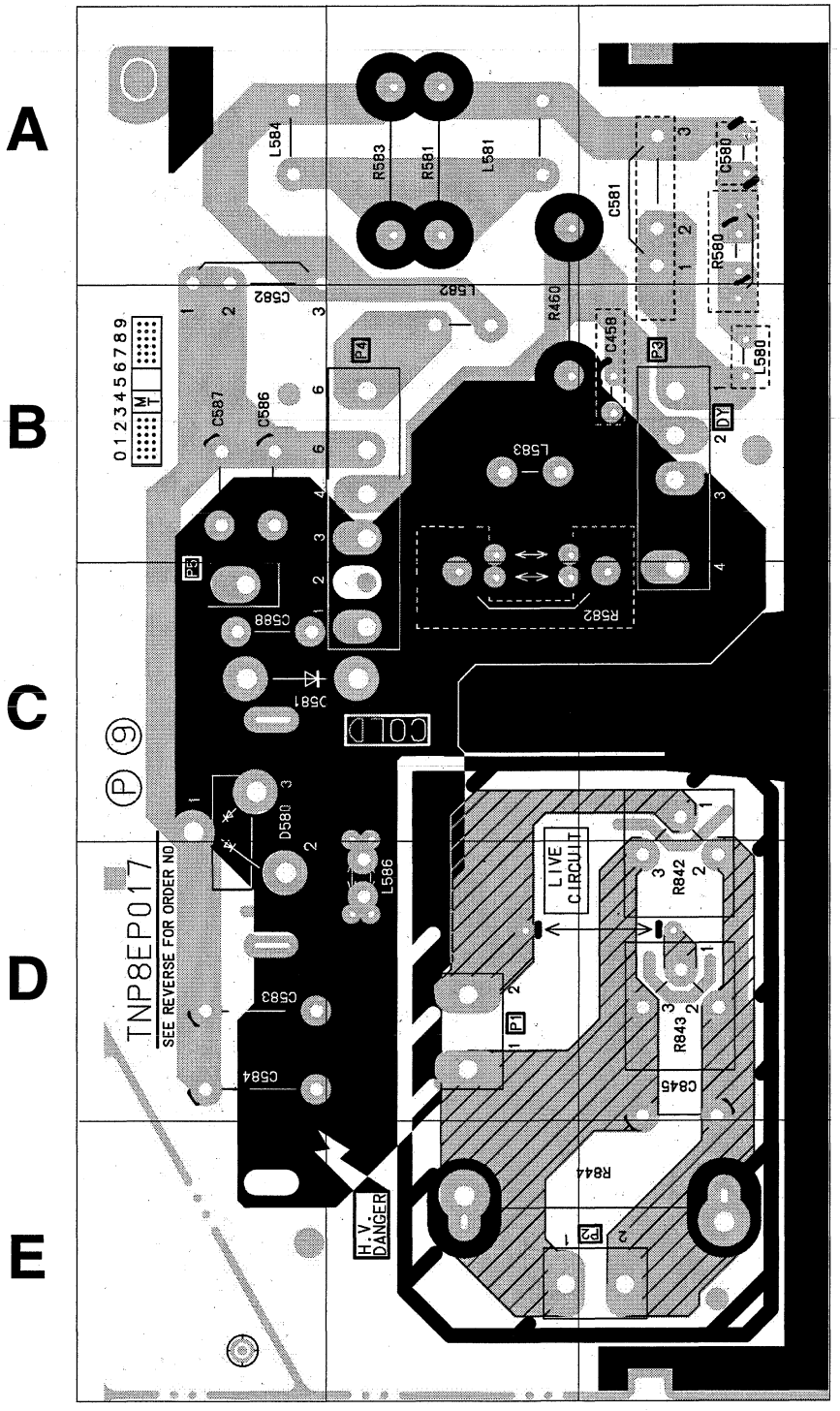
M - BOARD TNP8EM024

TRANSISTORS	
Q1061	B8
Q1062	B8
Q1900	B1
Q1901	B1
Q3201	B2
Q3202	B2
Q3203	B2
Q3204	B2
Q3205	B2
Q3206	B2
Q3207	B2
Q3208	B2
Q3209	B2
DIODES	
D1055	C8
D1061	C8
D1900	C1
D3201	B4
D3202	B4
D3203	B4
IC'S	
IC1061	C8
IC1900	B1
IC1901	B1



P - BOARD TNP8EP017

DIODES	
D580	C1
D581	C1



E BOARD ⚠
TNP8EE013

IC1104
MN1381-RTA

IC1102
EPROM

IC1101
uP
SDA5450C59

IC1105
MN1381-TTA

IC1103

IC2101
MSP3410DPOB4

IC853
AN78L08TA

IC852
AN78M09LB1

IC851
AN7812LB1

IC801
STRF6656LF57

IC850
SE140N

CRT DRIVE

SERVICE/TEST

JK2301
JPJ841101320
AUDIO OUT

AV1
JK3001

AV2

IC2101
MSP3410DPOB4

IC855
BA033T-M3

IC856
AN7805LS

IC601
TEA2114

IC701
TEA2031A

IC451
LA7845N

IC251
LA4282

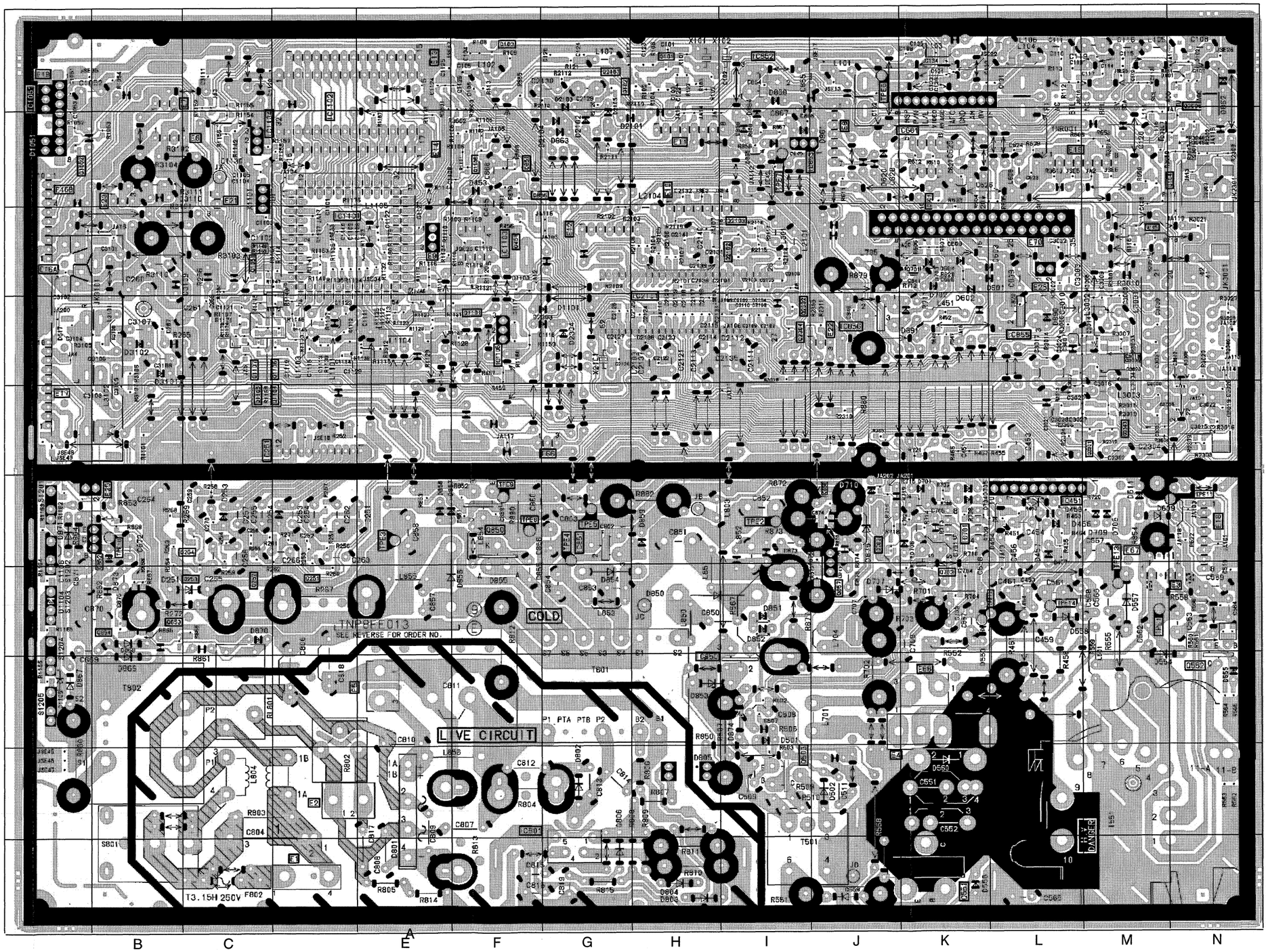
Q105
Q104
Q103
Q102
Q101
Q2101
Q2302
Q2304
Q3007
Q3006
Q2301
Q2303
Q254
Q253
Q252
Q251
Q551
Q503
Q701
Q601
Q553
Q703
Q702
Q552

IC2101 MSP3410DPOB4
IC855 BA033T-M3
IC856 AN7805LS
IC601 TEA2114
IC701 TEA2031A
IC451 LA7845N
IC251 LA4282
JK2301 JPJ841101320 AUDIO OUT
AV1 JK3001
AV2
SERVICE/TEST
CRT DRIVE

CONDUCTOR VIEWS

E-BOARD TNP8EE013

TRAN'S					
Q101	H10	D456	L5	D869	B4
Q103	F10	D457	L5	D870	C4
Q104	N9	D458	L5	D871	A5
Q105	M8	D501	I3	D873	B5
Q182	G10	D502	J2	D875	J5
Q251	D4	D511	M5	D890	L7
Q252	C4	D553	K4	D891	K7
Q253	C4	D554	M3	D1051	A9
Q254	C5	D555	N3	D1101	G7
Q451	F8	D556	K1	D1103	F8
Q503	I2	D557	M4	D1104	A4
Q551	K1	D558	L4	D1105	A3
Q552	N3	D559	J1	D1116	G7
Q601	K9	D560	K2	D2101	G9
Q701	K8	D601	K8	D2102	G9
Q702	J5	D602	K8	D2103	G10
Q703	K4	D603	K8	D2104	G9
Q850	F5	D604	K8	D2105	G9
Q851	F9	D609	M5	D2303	G7
Q852	B5	D620	J9	D2304	G7
Q853	B4	D701	K5	D3101	B7
Q854	B4	D702	K8	D3102	B7
Q855	J5	D703	K8		
Q856	F9	D704	K5	**TPs**	
Q857	J4	D705	K5	TPE1	M4
Q1051	C8	D706	K5	TPE10	B5
Q1052	A9	D707	J4	TPE11	N5
Q1101	F7	D708	M5	TPE12	K4
Q1104	D6	D709	M5	TPE13	M4
Q1105	C6	D710	J5	TPE14	L4
Q1106	D7	D801	E1	TPE2	I5
Q1107	C7	D802	G2	TPE3	E5
Q1108	F9	D803	H1	TPE4	G5
Q2101	G10	D804	H1	TPE5	G5
Q2102	I8	D805	H2	TPE6	J10
Q2103	I8	D806	G2	TPE7	I9
Q2301	M6	D850	H4	TPE8	F5
Q2302	I7	D851	I4	TPE9	F5
Q2303	M6	D852	I4		
Q2304	I7	D853	H3	**ICs**	
Q3006	N10	D854	G4	IC251	D6
Q3007	M9	D856	F4	IC451	L5
		D857	E5	IC601	K9
DIODES		D858	E5	IC701	K5
D251	D4	D859	H5	IC801	G2
D253	C4	D860	I10	IC850	H4
D254	B5	D861	J9	IC851	G5
D453	F9	D862	N10	IC852	I10
D454	L5	D863	G9	IC853	I9
		D864	I9	IC855	L7
		D865	I9	IC856	J7
		D866	I9	IC1051	A10
		D867	A3	IC1101	D8
		D868	B4	IC1102	D10
				IC1103	F8
				IC1104	C9
				IC1105	F7
				IC2101	H8



Q - BOARD TNP8EQ003